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in the City of New York

CATALOGUE

AND

GENERAL ANNOUNCEMENT

1904-1905

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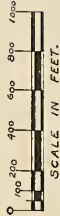
- 1 Speyer School
- 2 Alpha Chi Rho Club Rooms
- 3 Alpha Tau Omega Club Rooms
- 4 Zeta Psi
- 5 Jewish Theological Seminary
- 6 Grant's Mausoleum
- 7 Delta Upsilon Club House
- 8 Sigma Alpha Epsilon Club House
- 9 Theta Xi
- 10 Delta Psi
- 11 Phi Kappa Psi
- 12 Phi Delta Theta
- 13 Football
- 14 Delta Tau Delta
- 15 Theta Delta Chi



A detailed plan of the Columbia University buildings and grounds will be found in this volume facing page 191.

## MAP OF NEW YORK In the Vicinity of COLUMBIA UNIVERSITY.

- COLUMBIA UNIVERSITY BUILDINGS.
- PROPOSED UNIVERSITY BUILDINGS.
- ▨ OTHER PUBLIC INSTITUTIONS.
- S— SUBWAY STATIONS. —O—O—
- E— ELEVATED RAILWAY STATIONS. ———
- ▤ STUDENTS' CLUB HOUSES.



- 15 Psi Upsilon
- 16 Beta Theta Pi
- 17 Wadleigh High School
- 8 Phi Gamma Delta Club House
- 19 St. Luke's Home
- 20 Corn Exchange Bank (University Branch)
- 21 St. Luke's Hospital
- 22 Phi Sigma Kappa Club House
- 23 Alpha Delta Phi
- 24 Delta Kappa Epsilon Club House
- 25 Phi Kappa Sigma
- 26 City Water Works.
- 27 Home for Destitute and Aged Couples
- 28 Crypt of the Cathedral of St. John the Divine
- 29 National Academy of Design
- 30 Woman's Hospital
- 31 Public School No. 165





Columbia University  
in the City of New York

# CATALOGUE

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ALFRED J. MOSES, E.M., Ph.D.....Professor of Mineralogy

GEORGE S. HUNTINGTON, M.D., Sc.D..... Professor of Anatomy

HERBERT L. OSGOOD, Ph.D.....Professor of History

J. MCKEEN CATTELL, Ph.D.....Professor of Psychology

FRANCIS M. BURDICK, LL.D.....Dwight Professor of Law

GEORGE W. KIRCHWEY, A.B.....Kent Professor of Law

<sup>1</sup> Absent on leave

- JOHN BASSETT MOORE, LL.D.....Hamilton Fish Professor of International Law and Diplomacy
- HENRY FAIRFIELD OSBORN, Sc.D., LL.D.....Da Costa Professor of Zoölogy
- EDWARD DELAVAN PERRY, Ph.D., LL.D.....Jay Professor of Greek
- FRANK DEMPSTER SHERMAN, Ph.B.....Professor of Graphics
- WILLIAM A. DUNNING, Ph.D., LL.D.....Lieber Professor of History and Political Philosophy
- ABRAHAM VALENTINE WILLIAMS JACKSON, L.H.D., Ph.D., LL.D...Professor of Indo-Iranian Languages
- ADOLPHE COHN, LL.B., A.M....Professor of the Romance Languages and Literatures
- EDMUND B. WILSON, Ph.D., LL.D.....Professor of Zoölogy
- JAMES FURMAN KEMP, A.B., E.M.....Professor of Geology
- ROBERT PEELE, E.M.....Professor of Mining
- WILLIAM HALLOCK, Ph.D.....Professor of Physics
- BRANDER MATTHEWS, D.C.L., Litt.D., LL.D...Professor of Dramatic Literature
- FRANCIS B. CROCKER, E.M., Ph.D..Professor of Electrical Engineering
- MICHAEL IDVORSKY PUPIN, Ph.D., Sc.D.....Professor of Electro-Mechanics
- T. MITCHELL PRUDDEN, M.D., LL.D.....Professor of Pathology, and Director of the Laboratories of Histology, Pathology, Bacteriology and Hygiene, and Clinical Pathology
- WILLIAM H. BURR, C.E.....Professor of Civil Engineering
- ROBERT SIMPSON WOODWARD, C.E., Ph.D., LL.D...Professor of Mechanics and Mathematical Physics
- HENRY ALFRED TODD, Ph.D.....Professor of Romance Philology
- GEORGE RICE CARPENTER, A.B....Professor of Rhetoric and English Composition
- FRANKLIN HENRY GIDDINGS, Ph.D., LL.D.....Professor of Sociology
- GEORGE F. CANFIELD, A.B., LL.B.....Professor of Law
- THOMAS SCOTT FISKE, Ph.D.....Professor of Mathematics
- HAROLD JACOBY, Ph.D.....Professor of Astronomy
- JOHN B. CLARK, Ph.D., LL.D.....Professor of Political Economy
- <sup>1</sup> JAMES RIGNALL WHEELER, Ph.D.....Professor of Greek
- FRANK N. COLE, Ph.D.....Professor of Mathematics
- JAMES HARVEY ROBINSON, Ph.D.....Professor of History
- FREDERIC S. LEE, Ph.D.....Professor of Physiology
- JAMES CHIDESTER EGBERT, Ph.D.....Professor of Roman Archæology and Epigraphy
- CALVIN THOMAS, LL.D.....Gebhard Professor of the Germanic Languages and Literatures
- EDWIN B. CRAGIN, M.D.....Professor of Obstetrics and Gynecology
- CARLO LEONARDO SPERANZA, B. ès L., A.M.....Professor of Italian

<sup>1</sup> Absent on leave



BASHFORD DEAN, Ph.D.....Professor of Vertebrate Zoology  
LUCIEN MARCUS UNDERWOOD, Ph.D.... Torrey Professor of Botany  
WILLIAM MILLIGAN SLOANE, Ph.D., L.H.D., LL.D.....Seth Low  
Professor of History  
HENRY MARION HOWE, A.M., B.S.....Professor of Metallurgy  
CHARLES E. PELLEW, E.M.....Adjunct Professor of Chemistry  
EARL B. LOVELL, C.E.....Adjunct Professor of Civil Engineering  
FRANZ BOAS, Ph.D.....Professor of Anthropology  
JOHN FRANCIS WOODHULL, Ph.D.... Professor of Physical Science in  
Teachers College  
FRANKLIN THOMAS BAKER, A.M..Professor of the English Language  
and Literature in Teachers College  
EDWARD HOWARD CASTLE, A.M.....Professor of History in Teachers  
College  
RICHARD ELWOOD DODGE, A.M.....Professor of Geography  
CHARLES EARL BIKLÉ, A.M.... Adjunct Professor of Mathematics in  
Teachers College  
JAMES EARL RUSSELL, Ph.D., LL.D... Barnard Professor of Education  
FRANCIS ERNEST LLOYD, A.M..... Adjunct Professor of Biological  
Science in Teachers College  
HELEN KINNE..... Professor of Domestic Science in Teachers College  
MARY DUNCAN RUNYAN..Professor of Kindergarten in Teachers College  
MARY SCHENCK WOOLMAN...Professor of Domestic Art in Teachers  
College  
FRANK M. MCMURRY, Ph.D... Professor of the Theory and Practice of  
Teaching in Teachers College  
CHARLES RUSSELL RICHARDS, B.S.... Professor of Manual Training in  
Teachers College  
PAUL MONROE, Ph.D.....Professor of the History of Education  
in Teachers College  
SAMUEL TRAIN DUTTON, M.A.....Professor of School Administration  
in Teachers College  
WILLIAM P. TRENT, M.A., LL.D.....Professor of English Literature  
MORTIMER LAMSON EARLE, Ph.D.... Professor of Classical Philology  
HERBERT G. LORD, A.M.....Professor of Philosophy  
NELSON GLENN MCCREA, Ph.D.....Professor of Latin  
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Teachers College  
CLARENCE H. YOUNG, Ph.D.....Adjunct Professor of Greek  
LIVINGSTON FARRAND, A.M., M.D..... Professor of Anthropology  
GEORGE FRANCIS SEVER..Adjunct Professor of Electrical Engineering  
JAMES MACLAY, Ph.D.....Adjunct Professor of Mathematics  
EDMUND HOWD MILLER, Ph.D.... Professor of Analytical Chemistry  
MARSTON TAYLOR BOGERT, A.B., Ph.B.....Professor of Organic  
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Physical Chemistry

BENJAMIN DURYEA WOODWARD, Ph.D.....	Professor of the Romance Languages and Literatures
HENRY E. CRAMPTON, Ph.D.....	Professor of Zoölogy
EDWARD LEE THORNDIKE, Ph.D.....	Professor of Genetic Psychology in Teachers College
CHARLES HUBERT FARNSWORTH.....	Adjunct Professor of Music in Teachers College
HENRY S. REDFIELD, LL.D.....	Professor of Law
DAVID EUGENE SMITH, Ph.D...	Professor of Mathematics in Teachers College
<sup>1</sup> THOMAS DENISON WOOD, M.D.....	Professor of Physical Education
CHARLES T. TERRY, A.B., LL.B.....	Professor of Law
WALTER B. JAMES, M.D., LL.D.....	Bard Professor of the Practice of Medicine
WILLIAM J. GIES, M.S., Ph.D.....	Adjunct Professor of Physiological Chemistry
WILLIAM T. BREWSTER, A.M.....	Adjunct Professor of English
GEORGE CLINTON DENSMORE ODELL, Ph.D.....	Adjunct Professor of English
CHARLES KNAPP, Ph.D.....	Adjunct Professor of Classical Philology
L. EMMETT HOLT, M.D., LL.D., Sc.D.....	Carpentier Professor of Pediatrics
AMADEUS W. GRABAU, S.M., S.D.	Adjunct Professor of Palæontology
HENRY ROGERS SEAGER, Ph.D.....	Adjunct Professor of Political Economy
HENRY L. MOORE, Ph.D....	Adjunct Professor of Political Economy
JOHN DYNELEY PRINCE, Ph.D.....	Professor of Semitic Languages
FREDERICK JAMES EUGENE WOODBRIDGE, LL.D.....	Johnsonian Professor of Philosophy
FRIEDRICH HIRTH, Ph.D.....	Dean Lung Professor of Chinese
FELIX ADLER, Ph.D.....	Professor of Social and Political Ethics
JULIUS SACHS, Ph.D...	Professor of Secondary Education in Teachers College
RALPH EDWARD MAYER, C.E.....	Adjunct Professor of Mechanical Drawing
IRA H. WOOLSON, E.M...	Adjunct Professor of Mechanical Engineering
HERBERT MAULE RICHARDS, Sc.D.....	Adjunct Professor of Botany
GARY N. CALKINS, Ph.D.....	Professor of Invertebrate Zoölogy
PHILIP HANSON HISS, Jr., M.D., Ph.D.....	Adjunct Professor of Bacteriology
MARGARET E. MALTBY, Ph.D.....	Adjunct Professor of Physics in Barnard College
CASSIUS JACKSON KEYSER, Ph.D....	Adrain Professor of Mathematics
HERSCHEL C. PARKER, Ph.B.....	Adjunct Professor of Physics
CHARLES AUGUSTUS STRONG, A.B.....	Professor of Psychology
HARLAN FISKE STONE, A.M., LL.B.....	Adjunct Professor of Law

<sup>1</sup> Absent on leave

- MARSHALL H. SAVILLE....Loubat Professor of American Archæology  
 GEORGE L. MEYLAN, A.M., M.D.....Adjunct Professor of Physical  
 Education and Medical Director of the Gymnasium  
<sup>1</sup> ERNEST F. NICHOLS, Sc.D.....Professor of Experimental Physics  
 CHRISTIAN A. HERTER, M.D...Professor of Pharmacology and Thera-  
 peutics  
 JAMES B. SCOTT, A.M., J.U.D.....Professor of Law  
 AMASA TROWBRIDGE, Ph.B... ..Adjunct Professor of Mechanical  
 Engineering  
 ELIJAH WILLIAM BAGSTER-COLLINS, M.A.....Adjunct Professor of  
 German in Teachers College  
 LOUIS ROUILLION, M.A.....Adjunct Professor of Manual Training in  
 Teachers College  
 MAURICE A. BIGELOW, Ph.D.....Adjunct Professor of Biology in  
 Teachers College  
 FREDERICK H. SYKES, Ph.D.....Director of Extension Teaching  
 JOSEPH A. BLAKE, M.D.....Professor of Surgery  
 SAMUEL W. LAMBERT, M.D.....Professor of Applied Therapeutics  
 GEORGE H. FOX, M.D.....Professor of Dermatology  
 VIRGIL P. GIBNEY, M.D., LL.D.....Professor of Orthopædic Surgery  
 WILLIAM K. SIMPSON, M.D.....Professor of Laryngology  
 ARNOLD H. KNAPP, M.D.....Professor of Ophthalmology  
 GORHAM BACON, M.D.....Professor of Otology  
 JAMES R. HAYDEN, M.D.....Professor of Genito-Urinary Diseases  
 EUGENE HODENPYL, M.D..Adjunct Professor of Pathological Anatomy  
 HERMAN T. VULTÉ, Ph.D.....Adjunct Professor of Domestic Science  
 in Teachers College  
 HERBERT VAUGHAN ABBOTT, A.B.....Adjunct Professor of English  
 in Teachers College  
 FRANCIS CARTER WOOD, M.D..Adjunct Professor of Clinical Pathology  
 LEA McILVAINE LUQUER, Ph.D.....Adjunct Professor of Mineralogy  
<sup>1</sup> LOUIS AUGUSTE LOISEAUX, B.S...Adjunct Professor of the Romance  
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 WILLIAM ADDISON HERVEY, A.M.....Adjunct Professor of the  
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 FREDERICK R. BAILEY, M.D..Adjunct Professor of Normal Histology  
 RUDOLF TOMBO, JR., Ph.D.....Adjunct Professor of the Germanic  
 Languages and Literatures  
 BRADLEY STOUGHTON, B.S.....Adjunct Professor of Metallurgy  
 JOHN ANGUS MAC VANNEL, Ph.D.....Adjunct Professor of the  
 History of Education in Teachers College  
 RUSSELL BURTON-OPITZ, M.D.....Adjunct Professor of Physiology  
 LEONARD BEECHER MCWHOOD, A.B.....Adjunct Professor of Music  
 JOEL ELIAS SPINGARN, Ph.D.....Adjunct Professor of Comparative  
 Literature  
 MAXIMILIAN K. KRESS, A.M.....Adjunct Professor of Architecture

<sup>1</sup> Absent on leave

GEORGE N. OLCOTT, Ph.D.....	Adjunct Professor of Latin
THOMAS HUNT MORGAN, Ph.D....	Professor of Experimental Zoölogy
<sup>1</sup> GEORGE STUART FULLERTON, Ph.D.....	Professor of Philosophy
WILLIAM ALLAN NEILSON, Ph.D.....	Adjunct Professor of English
JEFFERSON B. FLETCHER, A.M....	Professor of Comparative Literature
HARRY McMAHON PAINTER, M.D.....	Professor of Clinical Obstetrics
CHARLES LANE POOR, Ph.D.....	Professor of Astronomy
CORNELIUS RÜBNER.....	Professor of Music
ARTHUR WESLEY DOW.....	Professor of Fine Arts in Teachers College
JOHN DEWEY, Ph.D., LL.D.....	Professor of Philosophy
HENRY H. RUSBY, M.D..	Professor of Botany and Materia Medica in the College of Pharmacy
VIRGIL COBLENTZ, A.M., Phar.M., Ph.D....	Professor of Physics and Chemistry in the College of Pharmacy
GEORGE A. FERGUSON, Ph.B....	Professor of Analytical Chemistry in the College of Pharmacy
SMITH ELY JELLIFFE, M.D., Ph.D.....	Professor in the College of Pharmacy and Instructor in Materia Medica
GEORGE C. DIEKMAN, Ph.G., M.D.....	Professor of Pharmacy in the College of Pharmacy
JOHN OEHLER, Ph.G....	Adjunct Professor of Chemistry in the College of Pharmacy
VIRGIL PRETTYMAN, A.M.....	Principal of Horace Mann High School with rank of Adjunct Professor in Teachers College
HENRY CARR PEARSON, A.B....	Principal of Horace Mann Elementary School with rank of Adjunct Professor in Teachers College

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### Clinical Professors and Lecturers

CHARLES MCBURNEY, M.D.....	Professor of Clinical Surgery
ROBERT F. WEIR, M.D.....	Professor of Clinical Surgery
FRANCIS P. KINNICUTT, M.D.....	Professor of Clinical Medicine
A. BRAYTON BALL, M.D.....	Professor of Clinical Medicine
FRANK HARTLEY, M.D..	Professor of Clinical Surgery and Instructor in Operative Surgery
FRANCIS H. MARKOE, M.D.....	Professor of Clinical Surgery
GEORGE E. BREWER, M.D.....	Professor of Clinical Surgery
JOHN S. THACHER, M.D.....	Professor of Clinical Medicine
FREDERICK PETERSON, M.D.....	Clinical Professor of Psychiatry
ANDREW J. MCCOSH, M.D., LL.D.....	Clinical Lecturer in Surgery
CHARLES T. POORE, M.D.....	Clinical Lecturer in Surgery
ROBERT ABBE, M.D.....	Clinical Lecturer in Surgery
WILLIAM B. COLEY, M.D..	Clinical Lecturer and Instructor in Surgery
JAMES D. VOORHEES, M.D.....	Lecturer in Obstetrics
ROLFE FLOYD, M.D.....	Lecturer in Anatomy

<sup>1</sup> Absent on leave



LUCIUS W. HOTCHKISS, M.D.....Clinical Lecturer and Instructor in  
Surgery

JOHN B. WALKER, M.D.....Clinical Lecturer in Surgery  
(17)

### Instructors

*Note*—For the Instructors and other Officers not of Professorial Grade in Teachers College, in the College of Pharmacy, and in the Summer Session, see the Table of Contents.

JAMES S. C. WELLS, Ph.D.....Instructor in Analytical Chemistry  
CHARLES A. HARRIMAN.....Instructor in Architectural Drawing  
GRENVILLE TEMPLE SNELLING, B.S.....Instructor in Architectural  
Engineering

EDWARD LEAMING, M.D.....Instructor in Photography  
WILLIAM S. STONE, M.D.....Chief of Clinic and Instructor in Gynecology

GEORGE R. LOCKWOOD, M.D.....Instructor in Medical Diagnosis

WILLIAM K. DRAPER, M.D.....Instructor in Medical Diagnosis

HORNE VAN NORRIE, M.D.....Instructor in Physical Diagnosis

ROYAL WHITMAN, M.D.....Instructor in Orthopædic Surgery

ROBERT LEWIS, Jr., M.D....Chief of Clinic and Instructor in Otolaryngology

FRANK W. JACKSON, M.D.....Instructor in Medical Diagnosis

GEORGE T. JACKSON, M.D.....Chief of Clinic and Instructor in  
Dermatology

CHARLES PRENTICE BENNS, M.E. .Instructor in Shop-work in Teachers  
College

CHARLES NORTH DOWD, M.D.....Instructor in Surgery

GEORGE MONTAGUE SWIFT, M.D.....Instructor in Medicine

RICHARD FROTHINGHAM, M.D.....Instructor in Laryngology

CHARLES CONRAD SLEFFEL. .Instructor in Forging in Teachers College

CHARLES W. WEICK, B.S.. Instructor in Wood-working and Pattern-  
making in Teachers College

WALTON MARTIN, M.D.....Instructor in Surgery

ALBERT E. SUMNER, M.D.....Chief of Clinic and Instructor in  
Physical Diagnosis

E. MILTON FOOTE, M.D.....Instructor in Surgery

CHARLES H. PECK, M.D.....Instructor in Surgery

WARREN S. BICKHAM, M.D.. Assistant Instructor in Operative Surgery

ALFRED S. TAYLOR, M.D....Assistant Instructor in Operative Surgery

JOSEPH C. PFISTER, A.M.....Instructor in Mechanics

ADOLPH BLACK, C.E.....Instructor in Civil Engineering

EDWARD LAWRENCE KURTZ, E.M.....Instructor in Mining

HENRY CLAPP SHERMAN, Ph.D....Instructor in Analytical Chemistry

PEARCE BAILEY, M.D....Chief of Clinic and Instructor in Neurology

ARTHUR M. SHRADY, M.D.....Instructor in Physical Diagnosis

JOHN HENRY LARKIN, M.D....Instructor in Pathology and Curator of  
the Museum

WILLIAM ROBERT SHEPHERD, Ph.D.....Instructor in History

RICHARD H. CUNNINGHAM, M.D.....	Instructor in Electro-Physiology and in Neurology
HENRY WOOLFE BERG, M.D.....	Instructor in Infectious Diseases
LINNAEUS EDFORD LA FETRA, M.D...	Chief of Clinic and Instructor in Pediatrics
CHARLES C. TROWBRIDGE, M.S.....	Instructor in Physics
FRANK LEO TUFTS, Ph.D.....	Instructor in Physics
DANIEL JORDAN, B.S., Pd.B....	Instructor in the Romance Languages and Literatures
ARTHUR F. J. REMY, Ph.D....	Instructor in the Germanic Languages and Literatures
<sup>1</sup> JAMES T. SHOTWELL, Ph.D.....	Instructor in History
GEORGE W. BOTSFORD, Ph.D.....	Instructor in History
CHARLES EDWARD LUCKE, M.S., Ph.D.....	Instructor in Mechanical Engineering
NORMAN E. DITMAN, M.D.....	Instructor in Pathology
A. EMIL SCHMITT, M.D....	Assistant Instructor in Operative Surgery
WARD A. HOLDEN, M.D..	Chief of Clinic and Instructor in Ophthalmology
FRANK S. MATHEWS, M.D.....	Instructor in Gynecology
FRANK R. OASTLER, M.D.....	Instructor in Gynecology
HOWARD C. TAYLOR, M.D.....	Instructor in Gynecology
HENRY H. TYSON, M.D.....	Instructor in Ophthalmology
ALBERT P. WILLS, Ph.D.....	Instructor in Mechanics
ROBERT SESSIONS WOODWORTH, Ph.D....	Instructor in Psychology
ALFRED H. GUMAER, B.S.....	Instructor in Architectural Design
FORBES HAWKES, M.D.....	Instructor in Surgery
CLARENCE A. McWILLIAMS, M.D.....	Instructor in Surgery
A. M. MILLER, A.M.....	Instructor in Normal Histology
MYRON SAMUEL FALK, Ph.D.....	Instructor in Civil Engineering
ADRIAN VAN SINDEREN LAMBERT, M.D.....	Instructor in Surgery
CARLETON P. FLINT, M.D.....	Instructor in Minor Surgery
EUGENE HILLHOUSE POOL, M.D.....	Instructor in Surgery
OLIVER S. STRONG, Ph.D.....	Instructor in Normal Histology
ALFRED NEWTON RICHARDS, Ph.D.....	Instructor in Pharmacology
ALVIN S. JOHNSON, Ph.D..	Instructor in Economics and Social Science
JAMES FARLEY McCLELLAND, E.M.....	Instructor in Mining
MARIE REIMER, Ph.D....	Instructor in Chemistry in Barnard College
AUGUSTUS B. WADSWORTH, M.D.....	Instructor in Bacteriology
JAMES C. AYER, M.D.....	Assistant Instructor in Operative Surgery
WILLIAM CAMPBELL, Ph.D., M.Sc.....	Instructor in Metallurgy
GEORGE SLOAN DIXON, M.D.....	Instructor in Otology
T. STUART HART, M.D.....	Instructor in Physical Diagnosis
WILLIAM P. HEALY, M.D.....	Instructor in Gynecology
JOHN HOWLAND, M.D.....	Instructor in Contagious Diseases
JAMES A. MILLER, M.D.....	Instructor in Physical Diagnosis
CHARLES J. PROBEN, M.D.....	Instructor in Gynecology

<sup>1</sup> Absent on leave

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in Surgery  
CHURCHILL CARMALT, M.D.....Assistant Demonstrator of Anatomy  
ARTHUR SEYMOUR VOSBURGH, M.D.....Assistant Demonstrator of  
Anatomy  
HENRY E. HALE, M.D.....Assistant Demonstrator of Anatomy  
HAVEN EMERSON, M.D.....Demonstrator of Physiology  
EDMUND L. DOW, M.D...Demonstrator in Pathological Anatomy and  
Tutor in Medicine  
WILLIAM DARRACH, M.D.....Assistant Demonstrator of Anatomy  
LEANDER H. SHEARER, M.D....Assistant Demonstrator of Physiology  
GEORGE A. TUTTLE, M.D.....Demonstrator in Pathological  
Anatomy  
ARTHUR WALKER BINGHAM, A.B., M.D....Assistant Demonstrator of  
Physiology  
CHARLES RUSSELL LOWELL PUTNAM, M.D....Assistant Demonstrator  
of Anatomy  
HERMANN VON W. SCHULTE, M.D.....Assistant Demonstrator of  
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EDWARD A. SPITZKA, M.D.....Assistant Demonstrator of Anatomy  
HARRY M. KEATOR, M.D..... Assistant Demonstrator of Physiology  
HORST OERTEL, M.D.....Demonstrator in Pathological Anatomy

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LOUIS H. LAUDY, Ph.D.....Tutor in General Chemistry  
CHARLES P. WARREN, A.M..... Tutor in Architectural Construction  
CARLTON CLARENCE CURTIS, Ph.D..... Tutor in Botany  
SAMUEL A. TUCKER, Ph.B.....Tutor in Industrial Chemistry  
RUDOLF TOMBO, Sr., Ph.D..... Tutor in the Germanic Languages and  
Literatures  
S. ALFRED MITCHELL, Ph.D.....Tutor in Astronomy  
FITZHUGH TOWNSEND, A.B., E.E.... Tutor in Electrical Engineering  
HENRY BEDINGER MITCHELL, A.M..... Tutor in Mathematics  
EDWARD KASNER, Ph.D..... Tutor in Mathematics  
SAMUEL OSGOOD MILLER, C.E..... Tutor in Drawing

HENRY BARGY, A.M.....	Tutor in the Romance Languages and Literatures
CAVALIER HARGRAVE JOÛET, Ph.D.....	Tutor in Analytical Chemistry
GEORGE H. LING, Ph.D.....	Tutor in Mathematics
DAVID BOVAIRD, M.D.....	Tutor in Medicine
NATHANIEL B. POTTER, M.D.....	Tutor in Medicine
FRED. P. SOLLEY, M.D.....	Tutor in Medicine
WILLIAM FINDLAY, Ph.D.....	Tutor in Mathematics
GEORGE BRAXTON PEGRAM, Ph.D.....	Tutor in Physics
ADAM LEROY JONES, Ph.D.....	Tutor in Philosophy
EVAN M. EVANS, M.D.....	Tutor in Medicine
WILHELM ALFRED BRAUN, Ph.D.....	Tutor in the Germanic Languages and Literatures
JOHN DRISCOLL FITZ-GERALD, II, A.B....	Tutor in the Romance Languages and Literatures
THOMAS H. HARRINGTON, C.E.....	Tutor in Drawing
WILLIAM E. KELLICOTT, Ph.D.....	Tutor in Zoölogy
VICTOR J. CHAMBERS, Ph.D.....	Tutor in Organic Chemistry
EVERETT J. HALL.....	Tutor in Analytical Chemistry and Assaying
AUSTIN FLINT ROGERS, Ph.D.....	Tutor in Mineralogy
ALFRED HAYES, Jr., A.M., LL.B.....	Tutor in Law
TRACY ELLIOT HAZEN, Ph.D.....	Tutor in Botany
ARTHUR COLON NEISH, A.M.....	Tutor in Chemistry
VIRGINIA C. GILDERSLEEVE, A.M.....	Tutor in English in Barnard College
GERTRUDE M. HIRST, Ph.D....	Tutor in Classical Philology in Barnard College
WILMON HENRY SHELDON, Ph.D.....	Tutor in Philosophy
CHARLES H. ELLARD, A.M.....	Tutor in Analytical Chemistry
HAL T. BEANS, Ph.D.....	Tutor in Analytical Chemistry
MYRICK N. BOLLES, Ph.D.....	Tutor in Metallurgy
BERGEN DAVIS, Ph.D.....	Tutor in Physics
CLIFFORD GRAY, E.E., A.M.....	Tutor in Mathematics
RICHARD THAYER HOLBROOK, Ph.D.....	Tutor in the Romance Languages and Literatures
EDWARD A. HOOK, A.M.....	Tutor in Mathematics
WALTER A. BASTEDO, M.D.....	Tutor in Materia Medica and Pharmacology
CHARLES P. BERKEY, Ph.D.....	Tutor in Geology
ROSCOE GUERNSEY, Ph.D.....	Tutor in Greek
WILLIAM ADAMS DELANO, A.B.....	Tutor in Design and Drawing
CHARLES M. HATHAWAY, Jr., Ph.D.....	Tutor in English
HENRI F. MULLER, B. ès L.....	Tutor in the Romance Languages and Literatures
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WILLIAM PEPPERRELL MONTAGUE, Ph.D.....	Tutor in Philosophy
FRANK S. MEARA, M.D.....	Tutor in Pediatrics



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 SAMUEL T. LAUBACH, B.S. . . . . Tutor in Mechanical Engineering  
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 GEORGE JAMES BAYLES, Ph.D. . . . . Lecturer in Ecclesiology  
 GUSTAV HINRICHS. . . . . Conductor of Music  
 CURTIS HIDDEN PAGE, Ph.D. . . . . Lecturer in the Romance Languages and Literatures  
 ALEXIS A. JULIEN, Ph.D. . . . . Curator in Geology  
 ELSIE CLEWS PARSONS, Ph.D. . . . . Lecturer in Sociology in Barnard College  
 MORTON ARENDT, E.E. . . . . Lecturer in Electrical Engineering  
 WILLIAM S. DAY, Ph.D. . . . . Lecturer in Physics  
 STEPHEN A. HURLBUT, A.M. . . . . Lecturer in Classical Philology  
<sup>1</sup> IDA HELEN OGILVIE, Ph.D. . . . . Lecturer in Geology in Barnard College  
 WILLIAM POPPER, Ph.D. . . . . Gustav Gottheil Lecturer in Semitic Languages  
 JACKSON E. REYNOLDS, A.B., LL.B. . . . . Lecturer in Law  
 FRANCIS XAVIER CARMODY, A.B., LL.B. . . . . Lecturer in Elocution and Public Speaking  
 ERNST D. RICHARD, Ph.D. . . . . Lecturer in German  
 CHARLES FORBES, M.D. . . . . Curator in Physics  
 JAMES HOWARD MCGREGOR, Ph.D. . . . . Lecturer in Vertebrate Zoölogy  
 GEORGE PHILIP KRAPP, Ph.D. . . . . Lecturer in English  
 CLARK WISSLER, Ph.D. . . . . Lecturer in Anthropology  
 LOUISE R. LOOMIS, A.M. . . . . Lecturer in History in Barnard College  
 ADOLPH F. BANDELIER. . . . . Lecturer in American Archæology  
 CHARLES A. BEARD, Ph.D. . . . . Lecturer in History  
 THADDEUS D. KENNESON, A.M., LL.B. . . . . Lecturer in Law  
 BERTHOLD LAUFER, Ph.D. . . . . Lecturer in Anthropology  
 OLIVER S. TONKS, Ph.D. . . . . Lecturer in Greek  
 DICKINSON S. MILLER, Ph.D. . . . . Lecturer in Philosophy  
 FREDERICK CURRY OSTRANDER, A.B. . . . . Lecturer in the Romance Languages and Literatures  
 VLADIMIR G. SIMKHOVITCH, Ph.D. . . . . Lecturer in Russian History  
 ANTONIO MARINONI, A.M. . . . . Lecturer in the Romance Languages and Literatures

(28)

<sup>1</sup> Absent on leave

## Assistants

FLORA E. HARPHAM, A.M.....	Computer at the Observatory
D. STUART DODGE JESSUP, M.D.....	Assistant in Clinical Pathology
CHARLES E. BANKER, M.D.....	Assistant in Normal Histology
WILLIAM C. UHLIG, Ph.D.....	Assistant in Analytical Chemistry
LINVILLE L. HENDREN, A.M.....	Assistant in Physics
HENRY ASKEW JACKSON, B.S., A.M....	Assistant in Physical Chemistry
CLAUDE RUSSELL FOUNTAIN, A.B.....	Assistant in Physics
ROBERT J. H. KLIENE.....	Assistant in Chinese
ALLEN H. NELSON, A.M.....	Assistant in Physics
FREDERICK VAN DYKE CRUSER, B.S.....	Assistant in Analytical Chemistry
PAULINE HAMILTON DEDERER, A.B.....	Assistant in Zoölogy in Barnard College
PERCY HUGHES, Ph.D.....	Assistant in Philosophy
ALICE A. KNOX, A.B.....	Assistant in Botany in Barnard College
ANNINA PERIAM, A.M.....	Assistant in the Germanic Languages and Literatures in Barnard College
PHILIPP SEIBERTH, A.M....	Assistant in the Germanic Languages and Literatures
CHARLES H. SMITH, M.D.....	Assistant in Normal Histology
JOHN FAIRFIELD THOMPSON, B.S.....	Assistant in Metallurgy
CARL M. VOGEL, M.D.....	Assistant in Pathology
ARMOUR CALDWELL, A.B.....	Assistant in English
FRANK G. BRUNER, A.B.....	Assistant in Psychology
EDWIN BENNETT WHEELER, B.S.....	Assistant in Physics
WILLIAM BRIAN HOOKER, A.B.....	Assistant in English
JOHN AUGUST SWENSON, A.B.....	Assistant in Mathematics
MARGARET E. BALL, A.M.....	Assistant in English in Barnard College
WILLIAM N. BERG, B.S.....	Assistant in Physiological Chemistry
DINO BIGONGIARI, A.B.....	Assistant in Latin
IRA D. CARDIFF, B.S.....	Assistant in Botany
JOHN A. DAVIS.....	Assistant in the Gymnasium
SALISBURY MARCUS DAY, E.E....	Assistant in Electrical Engineering
MILTON J. FALK, B.S.....	Assistant in Analytical Chemistry
HENRY HAROLD HIGBIE, E.E....	Assistant in Mechanical Engineering
JOHN LOUIS KIND, A.M....	Assistant in the Germanic Languages and Literatures
FLOYD J. METZGER, Ph.D.....	Assistant in General Chemistry
GUSTAVE M. MEYER, Ph.D.....	Assistant in Physiological Chemistry
AUSTEN FOX RIGGS, M.D.....	Assistant in Pathology
JULIAN C. SMALLWOOD, Mech.E.....	Assistant in Mechanical Engineering
CLIFFORD T. SWART, Mech.E.....	Assistant in Mechanical Engineering
CAMILLE A. TOUSSAINT, A.M.....	Assistant in Mathematics

HERBERT B. WILCOX, M.D.....	Assistant in Clinical Pathology
WALTER ALFRED MITCHELL, A.B.....	Assistant in Physics
RICHARD FRANCIS DEIMEL, B.S., A.M.....	Assistant in Mechanics
GEORGE C. FRACKER, A.M.....	Assistant in Psychology
WILLIAM H. WELKER, B.S.....	Assistant in Physiological Chemistry
MAURICE A. LAMME, B.S.....	Assistant in Mineralogy
LEONARD J. LEWINSON, E.E.....	Assistant in Electrical Engineering
JULES A. COELOS, C.E.....	Assistant in Civil Engineering
WALTER T. DERLETH, C.E., A.M.....	Assistant in Civil Engineering
J. HARVEY BORDEN, M.D.....	Assistant in Bacteriology and Hygiene
CLINTON BEECHAM KNAPP, M.D.....	Assistant in Bacteriology and Hygiene

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### CLINICAL ASSISTANTS AT THE VANDERBILT CLINIC

Officers of instruction holding appointments in addition to that of Clinical Assistant, are not included in this list. A complete list of the Clinical Assistants in each subject will be found at the head of the appropriate Departmental Statement.

#### In Medicine

HUGHES DAYTON, M.D.	LEWIS F. FRISSELL, M.D.
CHARLES S. FISCHER, M.D.	LINSLEY R. WILLIAMS, M.D.
I. N. WILZIN, M.D.	J. W. DOUNCE, M.D.

#### In Surgery

ROWLAND COX, M.D.	A. C. PRENTICE, M.D.
JAMES H. KENYON, M.D.	J. I. RUSSELL, M.D.
	H. H. M. LYLE, M.D.

#### In Orthopedic Surgery

CHARLTON WALLACE, M.D.	CARL R. KEPPLER, M.D.
CHARLES H. JAEGER, M.D.	DANIEL B. BRINSMADE, M.D.
SHIRLEY E. SPRAGUE, M.D.	NEWTON B. WALLER, M.D.
	ARTHUR H. CILLEY, M.D.

#### In Neurology

CHARLES E. ATWOOD, M.D.	L. S. MANSON, M.D.
B. E. KRYSTALL, M.D.	H. R. HUMPHRIES, M.D.
S. P. GOODHARDT, M.D.	THOMAS P. PROUT, M.D.
L. M. GIBSON, M.D.	G. W. TODD, M.D.
E. L. HUNT, M.D.	C. M. HAVILAND, M.D.
L. P. CLARK, M.D.	E. J. McENTEE, M.D.
	A. F. WITMER, M.D.

**In Gynecology**

WILLIAM L. BRADLEY, M.D.	PERCY H. WILLIAMS, M.D.
GEORGE H. MALLET, M.D.	HAROLD D. MEEKER, M.D.
ROBERT L. LOUGHRAN, M.D.	ARTHUR H. GARDNER, M.D.

**In Ophthalmology**

JOHN A. JACKSON, M.D.	ELLWOOD HARLOW, M.D.
	D. H. LEVY, M.D.

**In Laryngology**

(Including Diseases of the Larynx, Pharynx, and Nasal Passages)

A. P. COLL, M.D.	F. CONGER SMITH, M.D.
JOHN J. MCCOY, M.D.	C. D. VAN WAGENEN, M.D.
JOHN LESHURE, M.D.	F. A. SCHNEIDER, M.D.

**In Otology**

MATHEW L. CARR, M.D.	ALFRED MICHAELIS, M.D.
JOHN D. RICHARDS, M.D.	FRANK J. BLODGETT, M.D.

**In Dermatology**

JOHN H. P. HODGSON, M.D.	CHARLES T. DADE, M.D.
JOHN ALDRICH, M.D.	S. DANA HUBBARD, M.D.
J. D. GOLD, M.D.	L. R. WILLIAMS, M.D.

**In Pediatrics**

LEWIS M. SILVER, M.D.	R. H. McCONNELL, M.D.
ALBERT F. BRUGMAN, M.D.	A. B. YARD, M.D.
BERNARD SOUR, M.D.	S. V. HAAS, M.D.

EDWARD MILLER, M.D.

**In Genito-Urinary Diseases**

WALTER B. BROUNER, M.D.	W. S. REYNOLDS, M.D.
	S. W. FOWLER, M.D.

**In Applied Therapeutics**

F. G. GOODRIDGE, M.D.	N. B. FOSTER, M.D.
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# Columbia University in the City of New York

## GENERAL STATEMENT

On October 31, 1754, during the reign of George II., His Majesty's Letters Patent under the Great Seal of the Province were issued, incorporating THE GOVERNORS OF THE COLLEGE OF THE PROVINCE OF NEW YORK IN THE CITY OF NEW YORK IN AMERICA, and providing for the establishment of a College to be known as "Kings College," "for the Instruction and Education of Youth in the Learned Languages and in the Liberal Arts and Sciences." The interpretation placed upon this clause of the charter, at the time, is shown by the original announcement of Kings College in 1754, which, in part, reads as follows: "Vth and Lastly, A serious, virtuous, and industrious Course of Life being first provided for, it is further the Design of this College, to instruct and perfect the Youth in the learned Languages, and in the Arts of Reasoning exactly, of Writing correctly, and Speaking eloquently: And in the Arts of Numbering and Measuring, of Surveying and Navigation, of Geography and History, of Husbandry, Commerce, and Government; and in the Knowledge of all Nature in the Heavens above us, and in the Air, Water, and Earth around us, and the various Kinds of Meteors, Stones, Mines and Minerals, Plants and Animals, and of every Thing useful for the Comfort, the Convenience, and Elegance of Life, in the chief Manufactures relating to any of these things: And finally, to lead them from the Study of Nature, to the Knowledge of themselves, and of the God of Nature, and their Duty to Him, themselves, and one another; and every Thing that can contribute to their true Happiness both here and hereafter."

The charter named as Governors the Archbishop of Canterbury, the Governor of the Province, certain officers of the Crown, ex-officio, the Rector of Trinity Church, and the Ministers of the Reformed Dutch, Lutheran, French, and Presbyterian Churches, for the time being, and twenty-four residents of the city. Under this charter, Kings College was founded. An additional charter was granted May 30, 1755, authorizing the appointment of a Professor of Divinity by the Reformed Protestant Dutch Church.

Upon the convening of the Legislature of the State of New York in 1784, an act was passed incorporating the "REGENTS OF THE



UNIVERSITY OF THE STATE OF NEW YORK," vesting the property of Kings College in the Regents, and changing the name of the College to Columbia College.

In 1787, this was repealed, and a statute passed enacting "that the Charter heretofore granted to the Governors of the College of the Province of New York in the City of New York in America, dated the thirty-first day of October, in the year of our Lord one thousand seven hundred and fifty-four, shall be and hereby is fully and absolutely ratified and confirmed, in all respects, except that the College thereby established shall be henceforth called Columbia College"; and "that the style of the said corporation shall be, The Trustees of Columbia College in the City of New York." Certain other amendments also were made to conform to the new conditions.

In 1810, the charter was again amended in certain particulars at the request of the Trustees, and re-enacted, but the corporate title remained and still continues unchanged. The title to all corporate property is vested in a board of twenty-four Trustees, whose term of office is for life, and who form a self-perpetuating body, exercising the power of appointment as to all officers of instruction and administration.

In 1896, the Trustees approved the use of the title, Columbia University in the City of New York, to designate all the departments of instruction and research maintained and managed by the corporation, and in 1897 the work of the University was begun at Morningside Heights.

The President has charge of the educational administration of the University and is Chairman of the University Council and of every faculty established by the Trustees. The principal administrative officers, other than the President, are the Deans of the several faculties, the Secretary of the University, the Librarian, the Registrar, the Bursar, and the Superintendent of Buildings and Grounds.

The University Council is a representative body consisting of the President, the Dean, and the Secretary of the College, ex-officio, and the Dean and one elected member from each of the faculties of the University. Subject to the reserved power of control by the Trustees the University Council has charge of the general educational interests of the University and of all matters affecting more than one faculty.

All regulations as to fees and rules governing students, as herein set forth, are subject to change by the Trustees at their discretion.

## I. THE COLLEGES

a. COLUMBIA COLLEGE offers a course of four years, leading to the degree of Bachelor of Arts, conferred upon the recommendation of the Faculty of Columbia College. Candidates for admission must be at least fifteen years of age, and pass an examination on prescribed subjects. The curriculum offers a wide range of electives, both literary and scientific, making it possible for the student to elect such

courses during his first three years as will fit him either for the professional course he may intend to pursue, or for advanced work in non-professional subjects. During the senior year the student may study under any of the professional faculties.

b. **BARNARD COLLEGE**, founded in 1889, is an independent corporation whose grounds adjoin those of the University. As an undergraduate college for women, however, it bears the same relation <sup>1</sup> to the educational system of Columbia University as does Columbia College as an undergraduate college for men. The requirements for admission and the standard of scholarship are of the same grade. The students receive their instruction in the Barnard College buildings, except that for the time being members of the senior class may attend certain advanced courses in the University. The degree of Bachelor of Arts is conferred upon its graduates by the University upon the recommendation of the Faculty of Barnard College, of which the President of the University is, ex-officio, chairman.

## II. THE UNIVERSITY

In a technical sense, the Faculties of Law, Medicine, Philosophy, Political Science, Pure Science, and Applied Science, and the School of Architecture and Department of Music (temporarily set apart from the Faculties of Applied Science and Philosophy, respectively, pending the development in the University of a Faculty of Fine Arts), taken together constitute the University. These faculties offer advanced courses of study and investigation, respectively, in (a) private or municipal law, (b) medicine, (c) philosophy, education, philology, and letters, (d) history, economics, and public law, (e) mathematics and natural science, (f) applied science, and (g) architecture and music. These courses lead to the University degrees of Master of Arts and Doctor of Philosophy.

### A. The Non-Professional Schools

**THE FACULTY OF PHILOSOPHY** offers advanced courses and opportunities for original research in philosophy and education (through Teachers College), psychology and anthropology, Greek and Latin (including archæology and epigraphy), English, comparative literature, and the Germanic, the Romance, and the Oriental languages.

**THE FACULTY OF POLITICAL SCIENCE** offers advanced courses and opportunities for original research in political and social science, including history, economics, and public law.

**THE FACULTY OF PURE SCIENCE** offers advanced courses and opportunities for original research in mathematics, mechanics and electro-mechanics, astronomy, physics, chemistry, mineralogy, geology, zoölogy, botany, physiology, anatomy, bacteriology, and physiological

<sup>1</sup> By virtue of the agreement between the Trustees of Columbia College in the City of New York and the Trustees of Barnard College, dated January 19, 1900.

chemistry, and in mining, metallurgy, and engineering (civil, electrical, mechanical, and sanitary).

In the School of Architecture and the Department of Music, students may pursue advanced courses, and are given opportunities for original research in these subjects.

### B. The Professional Schools

THE FACULTIES OF LAW, MEDICINE, AND APPLIED SCIENCE conduct, respectively, the professional schools of Law, Medicine, and Mines, Chemistry, and Engineering, to which students are admitted as candidates for professional degrees on terms prescribed by the faculties concerned.

TEACHERS COLLEGE and the COLLEGE OF PHARMACY, while independent financial corporations are educationally included among the professional schools of the University. Under the general regulations of the University, students registered in other departments may pursue certain of their courses without charge, and their students are granted similar privileges.

THE SCHOOL OF LAW, established in 1858, offers a course of three years in the principles and practice of private and public law, leading to the degree of Bachelor of Laws.

THE COLLEGE OF PHYSICIANS AND SURGEONS, founded in 1807, offers a course of four years in the principles and practice of medicine and surgery, leading to the degree of Doctor of Medicine.

THE SCHOOL OF MINES, founded in 1863, offers courses of study, each of four years, leading to a professional degree, in mining engineering and in metallurgy.

THE SCHOOLS OF CHEMISTRY AND ENGINEERING, set off from the School of Mines in 1896, offer, respectively, courses of study, each of four years, leading to an appropriate professional degree in analytical, organic, and industrial chemistry; in civil, sanitary, electrical, and mechanical engineering.

THE SCHOOL OF ARCHITECTURE, set apart from the Faculty of Applied Science in 1902, offers a course of study of indeterminate length leading to the degree of Bachelor of Science in Architecture.

TEACHERS COLLEGE, founded in 1888 and chartered in 1889, was included in the University in 1898. It is still an independent corporation, its trustees continuing to assume the entire financial responsibility for its maintenance. It offers instruction in the History and Philosophy of Education and the Theory and Practice of Teaching, and takes academic rank in the University system as a professional school for teachers. It offers the following courses of study: (a) Graduate courses leading to the Doctor's diploma or to the Master's diploma; (b) Professional courses, each of two years, based upon two years of collegiate study leading to the Bachelor's diploma for teachers and supervisors in kindergartens or elementary schools, or for spe-



cialists in Domestic Art, Domestic Science, Fine Arts, Manual Training, Music, and Physical Education; and to the degree of Bachelor of Science in Education.

THE COLLEGE OF PHARMACY is, similarly, an independent corporation. It offers a two-year course leading to a certificate of Graduate in Pharmacy and a graduate course leading to an appropriate certificate or degree.

By agreement with Mr. Joseph Pulitzer of New York, executed July 20, 1903, Columbia University will establish in the immediate future a SCHOOL OF JOURNALISM, for which purpose Mr. Pulitzer has given to the University the sum of one million dollars. More detailed information will be contained in an announcement to be issued hereafter.

### C. Summer Session

The University maintains a SUMMER SESSION of six weeks' duration, in which are offered courses that are accepted in partial fulfilment of the requirements of the degrees of A.B., B.S., A.M., and Ph.D., and for the professional degrees in the Schools of Applied Science and Medicine and the diplomas of Teachers College.

### D. Extension Teaching

Through its system of EXTENSION TEACHING the University offers to men and women, especially to those engaged in teaching, who can give only a portion of their time to study, an opportunity to pursue some subjects included in a liberal education and to make progress, if they so desire, toward a diploma in teaching or an academic degree.

## DIVISIONAL ORGANIZATION

In order to present clearly a summary statement of the equipment and the instruction offered in any given group of subjects by the entire University, including Barnard College, Teachers College, and the College of Pharmacy; and to unify the work of each department of the University, and secure the interest of each officer of instruction in the entire work of his department, the several departments of the University are, with the exception of the professional courses in law and medicine, grouped together in divisions, as follows:

DIVISION OF BIOLOGY: Anatomy, Bacteriology, Botany, Physiology, Physiological Chemistry, and Zoölogy.

DIVISION OF CHEMISTRY: Chemistry and Physiological Chemistry.

DIVISION OF CLASSICAL PHILOLOGY: Greek and Latin.

DIVISION OF EDUCATION (FACULTY OF TEACHERS COLLEGE).

DIVISION OF ENGINEERING: Civil Engineering, Electrical Engineering, and Mechanical Engineering.

DIVISION OF FINE ARTS: Architecture, Comparative Literature, Fine Arts, and Music.

DIVISION OF GEOLOGY, GEOGRAPHY, AND MINERALOGY: Geology, Geography, and Mineralogy.

DIVISION OF HISTORY, ECONOMICS, and PUBLIC LAW (FACULTY OF POLITICAL SCIENCE): Economics and Social Science, History, and Public Law and Jurisprudence.

DIVISION OF MATHEMATICAL AND PHYSICAL SCIENCE: Astronomy, Mathematics, Mechanics, and Physics.

DIVISION OF MINING AND METALLURGY: Metallurgy and Mining.

DIVISION OF MODERN LANGUAGES AND LITERATURES: Comparative Literature, English, Germanic Languages, and Romance Languages.

DIVISION OF ORIENTAL LANGUAGES: Chinese, Indo-Iranian Languages, and Semitic Languages.

DIVISION OF PHILOSOPHY, PSYCHOLOGY, AND ANTHROPOLOGY: Anthropology, Philosophy, and Psychology.

DIVISION OF PHYSICAL EDUCATION: Physical Education.

The objects of the divisional organization are primarily to present clearly a summary statement of the equipment and the instruction offered in any given group of subjects by the entire University, including Barnard College and Teachers College; and to unify the work of each department of the University and secure the interest of each officer of instruction in the entire work of his department.

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The Announcements of each College or School, of the Summer Session, of Extension Teaching, and of the several Divisions, are issued in the form of Bulletins of Information, and may be obtained without charge from the Secretary of the University.

## DEGREES

The division of the University into faculties and schools neither controls nor limits the student in his freedom of electing, under one or several of the faculties, courses that lead to the University degrees of Master of Arts and Doctor of Philosophy. These degrees are granted upon the recommendation of the University Council.

The professional degrees are Bachelor of Laws, Doctor of Medicine, Bachelor of Science,<sup>1</sup> Engineer of Mines, Metallurgical Engineer, Civil Engineer, Electrical Engineer, and Mechanical Engineer. These degrees are conferred upon the recommendation of the Faculties of Law, Medicine, and Applied Science, respectively. Appropriate degrees in Pharmacy will also be conferred upon recommendation of the Faculty of Pharmacy.

All Teachers College diplomas and the degree of Bachelor of Science in Education are conferred by the University upon the recommenda-

<sup>1</sup> The degree of Bachelor of Science in Architecture is for the present conferred upon the recommendation of the Department of Architecture.

tion of the Faculty of Teachers College, of which the President of the University is, ex-officio, chairman.

### Terminology

No degrees are granted by the University for work done *in absentia*, and a minimum residence of one complete academic year (or in the case of the degree of Master of Arts attendance at four Summer Sessions) is required of each candidate for a degree.

For the sake of clearness the terminology used in this Catalogue, and hereafter in the official publications of the University, will follow the recommendations of the *Report of the Committee on College Entrance Requirements*, July, 1899, of the National Educational Association (published by the Association, 1899), as follows:

"Three distinct terms seem to be needed: (1) *Program of studies*, which includes all of the studies offered in a given school; (2) *curriculum*, which means the group of studies schematically arranged for any pupil or set of pupils; (3) *course of study*, which means the quantity, quality, and method of the work in any given subject of instruction.

"Thus the program of studies includes the curriculum, and may, indeed, furnish the material for the construction of an indefinite number of curriculums. The course of study is the unit, or element from which both the program and the curriculum are constructed " (p. 42).

## ADMISSION

### Entrance Examinations

(For information as to entrance examinations see Table of Contents.)

### Academic Discipline

By the terms of the statutes of the University every student is admitted subject to the disciplinary powers of the University authorities. The President is empowered to administer discipline in such cases as he deems proper, and to authorize the Deans of the several faculties to administer discipline in such manner and under such regulations as he may prescribe.

### Attendance

The University requires of all students regular attendance upon all stated Academic exercises. Students who find that stated academic exercises are fixed for days set apart for religious observance by the church to which they belong, and who are prevented by conscientious scruples from performing their University duties on those days, are requested to make application to the appropriate University authority for equitable relief. It should be noted, however, that in case two opportunities for taking a given examination are statedly offered, as for instance the June and September entrance examinations, such

students are expected to present themselves on the day which is not set apart as a holy day. In other cases, candidates for admission should make application to the Chairman of the Committee on Admissions of the department of the University which they propose to enter, and students already matriculated should apply to the Dean of the faculty in which they are primarily registered.

### Admission of Women

Barnard College is the undergraduate College for women. Unless otherwise stated in the appropriate Announcement, the courses offered by the non-professional Faculties of Political Science, Philosophy, and Pure Science, as well as the courses in the Department of Music, are open to men and women on equal terms. So also are the professional courses offered by Teachers College and the College of Pharmacy and all Summer Session and Extension courses. None of the other professional schools of the University corporation is open to women.

### Auditors

Certain courses of lectures are at present open to the public, men and women alike, on payment of an auditor's fee. Auditors will not be admitted to any course without the written consent of the instructor, previously obtained, which must be presented to the Registrar of the University and approved by him before attendance upon the courses which he is authorized to pursue, and such other information as may be from time to time required.

### REGISTRATION

No student is permitted to attend any academic exercise until he has complied with the regulations in regard to registration and fees.

Every student will be required, as a condition of admission to the College or to any School, to register on a blank prepared for the purpose, upon which he shall state his name, place of abode, and post-office address (if he be under twenty-one years of age, also the name, place of abode, and post-office address of his father or guardian), the courses which he is authorized to pursue, and such other information as may be from time to time required.

Students entering the College of Physicians and Surgeons should register and pay their fees at the offices of the Assistant Registrar and Assistant Bursar, College of Physicians and Surgeons, 437 West 59th Street.

Students entering Barnard College, Teachers College, and the College of Pharmacy should register and pay their fees at the offices of these institutions. Information as to fees and the like will be found in the appropriate *Bulletin of Information*.

All other students must register in person at the office of the Regis-



trar, Room 109, Library Building, or at one of the registration centers assigned by him, and pay their fees to the Bursar, Room 108, Library Building. All students failing to register within the time limits fixed by the regulations of the University are allowed to register only by the payment of an additional fee of \$5.00. A circular concerning registration regulations and information with reference to the time limits may be obtained from the Registrar.

### Withdrawal

Students are requested, in case of withdrawal from the University during the academic year, to notify the Registrar in writing without delay. No application for a return of fees can be considered unless such notice be given at the time of withdrawal.

### FEES

The regulations of the Corporation of Columbia College in the City of New York in regard to fees are as follows:

*For Matriculation:* Required of all students entering the University, payable but once . . . . . \$5

*For Tuition:*

For candidates for a degree:

In the College <sup>1</sup> . . . . .	per annum	\$150
In the School of Law . . . . .	" "	150
In the College of Physicians and Surgeons . . . . .	" "	250
In the Schools of Applied Science <sup>2</sup> . . . . .	" "	250
In the School of Architecture . . . . .	" "	200

For candidates for the degrees of Master of Arts and Doctor of Philosophy <sup>3</sup> . . . . . 150

With a maximum fee of \$150 and \$300, respectively, when the course does not exceed, for the Master's degree, three, and for the Doctor's degree five years. Students paying by instalments may take only such courses as count toward the degree; any other courses must be paid for separately at the rates charged to special students.<sup>4</sup>

For students not candidates for a degree, at the rate of \$15 per annum for each hour of attendance a week on lectures or recitations, with a maximum fee of \$150, except

<sup>1</sup> Seniors taking the first year in the Medical School pay the fee required in that school, \$250. For the extra fees required of Juniors and Seniors electing courses in the Schools of Applied Science and Architecture see pages 24-25.

<sup>2</sup> For the fees required for the Summer Courses in Surveying, Mining, and Geodesy, see page 27.

<sup>3</sup> For the laboratory fees required of graduate students in the Faculty of Pure Science, see page 25.

<sup>4</sup> If a student has paid tuition fees to the University as a candidate for A.M., and later registers as a candidate for Ph.D., the amount of such payment will be credited toward the maximum fee for the latter degree, provided there is no change in the choice of major and minor subjects.

that in the schools of Medicine and Applied Science, the rate is \$25 for each hour, with a maximum fee of \$250. For auditors the rate is \$20 per hour, up to a maximum of \$200. For the fees for special students in architecture, see page 26.

For all students in the Summer Session . . . . . \$30

*For Examinations, payable in each case before the examination is held :*

At unusual times . . . . . \$ 5

In Columbia College and in the Schools of Law, Medicine, Applied Science, and Architecture, any examination other than those offered at the mid-year or final examination periods in a given course or courses will be held to be an examination at an "unusual time" and the statutory fee of \$5 will be charged therefor. A single fee of \$5 shall cover any single series of examinations which a student by a single certificate of the appropriate administrative officer is authorized to take.

For the degree of Bachelor of Arts . . . . . 15

For any professional or technical degree . . . . . 25

For the degree of Master of Arts . . . . . 25

For the degree of Doctor of Philosophy . . . . . 35

*For Use of the Gymnasium<sup>1</sup> :*

All men students registered for 8 hours or more a week except those of the College of Physicians and Surgeons are required to pay an annual gymnasium fee of . . . . . 7

This entitles them to a locker and to the use of the Gymnasium and the baths.

#### **Fees for Students in the College Electing Subjects in Applied Science and Architecture**

Juniors and Seniors in Columbia College who are permitted by the Dean to elect courses in Applied Science and Architecture are required to pay an annual fee of \$150, payable by all candidates for the degree of A.B., and an additional fee for each course so taken up to a maximum tuition fee for such courses of \$100 a year for Applied Science, \$50 a year for Architecture. The additional fee for each course which may be so taken is as follows:

Architecture	15, 91, each.....	\$30
"	2, 3, ".....	25
"	1.....	15
"	5, 8, 93, 10, 15, 16, 4, 6, 7, 11, each.....	10
Chemistry	12, 9, each.....	50
"	17.....	45
"	11.....	30
"	3.....	25

<sup>1</sup> Women students may enjoy the privileges of the Thompson Physical Education Building upon payment of an annual fee of \$7.00.

Chemistry 2, 26, each.....	\$ 20
“ 24.....	15
“ 27.....	10
Civil Engineering 1, 2, 3, each.....	10
For the Summer Courses see page 27.	
Electrical Engineering 7.....	10
Geology 4.....	10
Mechanical Engineering 6, 7, each .....	30
“ “ 5, 8, “ .....	25
“ “ 103-104, 3, 4, each.....	15
“ “ 2, 11, 110, each.....	10
“ “ 36 or 37.....	1
Mineralogy 12.....	25
“ 5, 6, 8, each.....	10

### Special Laboratory Fees

Students who are not candidates for a degree, as well as all candidates for the higher degrees registered under the Faculty of Pure Science, shall be charged, in addition to the prescribed tuition fee, a fee for laboratory courses and for the use of laboratories in accordance with the following schedule, up to a maximum fee of \$250 including tuition:

#### Pure and Applied Science

DEPARTMENT	UNIT OF TIME	RATE
Botany	Year	\$10 for use of laboratories
Chemistry	Year	\$50 for use of laboratories, or any of them
Engineering:		
Civil	Two weeks	Course 11. Cement Testing laboratory, \$15
	One month	Course 5. Laboratory for testing materials, \$30
Electrical	Year	Course 11, \$50; Course 10 or 12, \$40; Course 27 or 105, \$15; Course 28, \$10
Mechanical	Year	\$50 for use of laboratories, or any of them
Metallurgy	Year or Half-year	\$50 for use of laboratories, or any of them. \$25 for Course 6a. \$20 for Course 7
Mining	Year	2d half-year, Course 5, \$50 1st half-year, Course 8, \$25 for use of draughting room and laboratory instruction
Physics	Year	\$25 for use of laboratories by those not taking other instruction from department and by students in the Faculty of Pure Science; \$5 for special students taking other than undergraduate lecture courses
Zoölogy	Year	\$25 for 1 day per week; each additional day, \$15
	Half-year	\$15 for 1 day per week; each additional day, \$7.50



## Architecture

Special students in architecture taking not less than four hours per week of lectures are permitted to register and pay for periods of two months at the rate of \$5 per hour weekly of lectures taken. They are charged a fee of \$25 for the use of the draughting rooms for the academic year, or \$10 for a single period of two months, but in no case are the total fees to exceed \$50 for the two months.

## Medicine

SUBJECT  In each case for the academic year, or until the conclusion of the course	Dissecting	Demonstrations	Laboratory	Lectures	Lectures (Clinics)	Recitations	Section Teaching
Anatomy.....	\$10	\$50	—	\$50	—	—	—
Chemistry.....	—	—	\$50	25	—	—	—
Dermatology.....	—	—	—	—	\$15	—	\$25
Genito - Urinary Dis- eases.....	—	—	—	—	25	—	25
Gynecology.....	—	—	—	25	—	15	25
Laryngology.....	—	—	—	—	15	—	25
Materia Medica.....	—	—	—	15	—	—	—
(Phar. & Ther.).....	—	—	25	25	—	25	—
(Applied Thera- peutics).....	—	—	—	25	—	25	—
Neurology.....	—	—	—	15	—	—	25
Obstetrics.....	—	—	—	25	—	25	40
Ophthalmology.....	—	—	—	—	25	—	25
Orthopedic Surgery....	—	—	—	—	25	—	25
Otology.....	—	—	—	—	15	—	25
Pathology:							
Courses 2 and 4.....	—	—	25	—	—	—	—
Course 3.....	—	—	15	—	—	—	—
Clinical Pathology:							
Course 1.....	—	—	15	—	—	—	—
Course 2.....	—	—	25	—	—	—	—
Bacteriology and Hygiene:							
Course 1.....	—	—	15	—	—	—	—
Course 2.....	—	—	35	—	—	—	—
Course 3.....	—	—	25	—	—	—	—
Normal Histology:							
Courses 1 and 3.....	—	—	25	—	—	—	—
Course 2.....	—	—	15	—	—	—	—
Pediatrics.....	—	—	—	15	—	—	25
Physics.....	—	—	25	37½	—	—	—
Physiological Chemistry	—	—	25	15	—	—	—
Physiology.....	—	5	25	35	—	—	—
Medicine.....	—	—	—	25	—	50	25
(Phy. Diag.).....	—	—	—	15	—	—	25
Surgery.....	—	—	—	50	—	50	25
(Minor Surg.).....	—	—	—	—	—	—	25
(Oper. Surg.).....	—	—	—	—	—	—	25
(2nd year Course)...	—	—	—	25	—	—	—

### Laboratory and Tuition Fees for the Summer Courses in Surveying

The following laboratory fees are required of all students:

Civil Engineering	Five weeks	Course 15, \$25, or \$7 per survey for students with advanced standing
	Five weeks	Course 16, \$15, or \$5 per survey for students with advanced standing
	Two weeks	Course 16a, \$5
	Four weeks	Course 17, \$10

In addition to the above laboratory fees, all students not candidates for a degree, all candidates for admission with advanced standing to the Schools of Applied Science, and all students who, having previously entered with advanced standing, may be required subsequently to attend any of these courses, must pay therefor tuition fees as follows:

Civil Engineering,	15	.	.	.	.	.	.	\$35
"	16	.	.	.	.	.	.	25
"	16a	.	.	.	.	.	.	10
"	17	.	.	.	.	.	.	25

This applies also to students in the College who pursue these courses, with the provision that any such student who later completes one of the regular courses in Applied Science will be credited at graduation with the difference, if any, between the fees actually paid by him and the fees which would have been charged had he been registered in Applied Science throughout the regular four-year course.

The regulations provide further that every student who fails to attend and complete any one of these courses regularly with his class will be permitted to do so later only upon payment of the above specified fee.

For further details as to the administration of these fees, see the special *Announcement of the Summer Courses in Surveying*.

### . Fees for the Summer Courses in Mining and in Geodesy

Candidates for admission to advanced standing who attend the Summer Course in Practical Mining are required to pay therefor a fee of \$50. All students attending the Summer Course in Geodesy must pay a fee of \$20 for the course, to the Bursar at the University.

### Payment of Fees

The matriculation fee shall be paid before entrance if not covered by the entrance examination fee. Examination fees shall be paid in all cases before examination. Every student failing to register within the limits of time fixed by the regulations of the University shall be allowed to register only upon the payment of an additional fee of \$5.

Annual tuition fees (see p. 23) shall be paid in equal instalments on or before the third Saturday of the academic year, and on or before the second Wednesday of the second half-year in each academic year, except that whenever the total amount of a student's tuition fees

shall not exceed one hundred dollars, the full amount shall be paid on or before the second Saturday in October. Tuition and laboratory fees for the Summer Courses in Practical Mining, Surveying, and Geodesy shall be paid on or before the last Saturday in May.

#### Deposits for Apparatus Supplies and for Keys to Desks and Lockers

A deposit for the use of apparatus, material, and the like shall be charged when prescribed by the head of the department supplying the same, with the approval of the President and Treasurer.

The University undertakes, on account of the following deposits, to lend apparatus and keys to regular students in the following courses in the Schools of Applied Science:

	Mining Engineering	Civil Engineering	Sanitary Engineering	Electrical Engineering	Mechanical Engineering	Metallurgy	Chemistry	Architec- ture
First Class.....	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$1
Second " .....	40	10	10	40	10	40	40	1
Third " .....	40	10	10	10	10	40	40	1
Fourth " .....	1	1	1	10	10	40	40	1

For details in regard to laboratory and other work covered by the above deposits, see the departmental circulars. The deposit of \$1 as above entitles the student to receive the required key to a drawing-room desk or to a laboratory desk or table.

For other students, pursuing the following subjects, extra deposits are required as follows:

Chemistry 5 .....	\$10
" 6, 7, each .....	20
" 9, 11, and 12 or 13, each .....	40
" 17, 26 or 27, 30 or 33, each .....	40
Mineralogy 6 .....	10

A deposit of \$10 or more, as above, entitles the student to draw all required keys, including a key to a hat locker.

A student, receiving a key to a hat locker or to a drawer in the Seminar Room, not making a deposit of at least \$10, will be required to make a deposit of \$1 for each such key desired.

Each student shall be entitled, on presenting his receipt at the apparatus room, to draw the regular set of apparatus which will be charged to him. At the end of the year he will be credited with those articles which he returns in good order, and the value of those he has injured or broken will be deducted from his deposit.

Students who furnish their own apparatus are required to make a deposit of \$10 to cover the use of reagent bottles, keys, etc.

## Miscellaneous Regulations

The amount of fees to be paid in special cases for partial attendance shall be determined by the President and Treasurer.

Students who have taken the degree of Doctor of Philosophy in this University may, with the consent of the University Council, continue their researches in the laboratories or library of the University without the payment of tuition fees.

No candidate for a degree in any school shall be entitled to receive the same until he shall have discharged all his duties to the University.

**Comparative Statement of Students' probable Expenses for the  
Academic Year, October to June**

BASED ON STUDENTS' STATEMENTS

	Low	Average	Liberal
Matriculation Fee (First Year).....	\$ 5	\$ 5	\$ 5
Tuition Fee <sup>1</sup> .....	150	150	150
Gymnasium Fee.....	7	7	7
Books.....	18	30	40 up
College Incidentals.....	7	15	33 "
Room (37 weeks).....	77	112	178 "
Board (37 weeks).....	146	184	236 "
Clothes and Washing.....	46	80	125 "
All other expenses.....	24	57	100 "
Total.....	\$480	\$640	\$874 up

## COMMITTEE ON EMPLOYMENT FOR STUDENTS

JAMES F. KEMP.....	<i>Faculty of Pure Science, Chairman</i>
THOMAS S. FISKE.....	<i>Faculty of the College</i>
GEORGE S. HUNTINGTON.....	<i>Faculty of Medicine</i>
FRANCIS M. BURDICK.....	<i>Faculty of Law</i>
FREDERICK R. HUTTON.....	<i>Faculty of Applied Science</i>
FRANKLIN H. GIDDINGS.....	<i>Faculty of Political Science</i>
HENRY A. TODD.....	<i>Faculty of Philosophy</i>
F. P. KEPPEL.....	<i>Secretary of the University</i>
RUDOLF TOMBO, Jr.....	<i>Registrar of the University</i>
GILBERT A. BEAVER.....	<i>Secretary of Earl Hall</i>
REUBEN A. MEYERS.....	<i>Secretary of the Committee</i>

It is the design of the Committee to put students desiring to work their way through college, especially those coming from elsewhere than New York or the immediate vicinity, in the way of earning enough for their partial or complete support, or if possible to extend

<sup>1</sup> For Medicine and Applied Science add \$100, and for Architecture add \$50



assistance to them in other ways, while they are pursuing their studies here. Many opportunities may be offered to students of this class if the fact of their desire to obtain employment is made known. Some of the openings available are: private tutoring, translating, copying of various sorts, teaching in evening schools, travelling companions, stenography, and typewriting. Communications should be addressed to the Committee.

The Committee hesitates to advise Medical and Engineering Students not to undertake outside work of any kind during the academic year. The demands of these courses in lectures and laboratory work are so exacting and inflexible as to make additional responsibilities a greater burden than can, in the great majority of instances, be wisely assumed. It would even be better for such students to withdraw from the University for a year in order to earn the money necessary to enable them to give undivided attention to their work while in attendance.

While much work is found for students each year, preference is naturally given, in case of a choice of applicants for a position, to those who have spent at least a portion of a year at Columbia, and thus have become personally known to members of this Committee or to other officers. No prospective student should come to Columbia depending entirely or even largely upon the assistance of the Committee, but should be prepared to meet at least the expenses of the first half-year—say two hundred and fifty dollars.

All the heads of clinics in the Medical School have consented to give advice without charge to students who are on the lists of the Committee, and who present cards of introduction from its Secretary. Such visitors are received, as a general rule, during office hours at private offices. This insures to students who need it the best medical advice in the city.

### APPOINTMENT COMMITTEES

The duty of these Committees is to recommend graduates of the College or University for teaching or other positions in colleges and universities and to assist competent graduates to obtain such positions.

The Committees keep classified lists of those who wish employment and will be glad to be informed promptly of present or prospective vacancies in positions for which college-trained men or women are eligible.

No fees are charged for any service rendered by either Committee.

#### University Appointment Committee

For positions in colleges and universities, except in the Department of Education

JAMES HULME CANFIELD.....*Librarian of the University, Chairman*  
 FREDERICK R. HUTTON.....*Professor of Mechanical Engineering*  
 EDWIN R. A. SELIGMAN.....*McVickar Professor of Political Economy*  
 JAMES MCKEEN CATTELL.....*Professor of Psychology*  
 HENRY ALFRED TODD.....*Professor of Romance Philology*

GEORGE W. KIRCHWEY.....*Professor of Law*  
 GEORGE RICE CARPENTER.*Professor of Rhetoric and English Composition*  
 JAMES RIGNALL WHEELER.....*Professor of Greek*  
 CALVIN THOMAS.....*Gebhard Professor of the Germanic Languages  
 and Literatures*

Communications in regard to vacancies and recommendations of suitable candidates for the same should be addressed to the Chairman, Library, Columbia University, New York.

## University Appointment Committee

For college and university positions in Education, and for Administrative, Supervisory, and Teaching positions in Normal, Secondary, and Elementary Schools and Kindergartens.

JAMES E. RUSSELL.....*Dean of Teachers College, Chairman*  
SAMUEL T. DUTTON.....*Professor of School Administration*  
JAMES F. KEMP.....*Professor of Geology*  
FRANK M. MCMURRY.....*Professor of the Theory and Practice of Teaching*  
DAVID EUGENE SMITH.....*Professor of Mathematics*  
WILLIAM P. TRENT.....*Professor of English Literature*

Communications should be addressed to the Chairman of the Committee, or to its secretary, Miss I. L. Pratt, Teachers College, Columbia University, New York.

## COMMITTEE ON SOCIAL SETTLEMENTS AND ALLIED WORK

The object of this Committee is to serve as a medium of communication between the students and the several settlements and allied organizations. It supervises the courses given under the auspices of the University, destined for settlement workers and for students interested in settlement work. It posts on the bulletin notices affecting the settlements that are of interest to students. It recommends to the settlements such students as are qualified to enter upon the work. It supervises the fellowships and scholarships that are granted to the settlements so far as the incumbents desire, or are obligated, to study at the University. The committee is composed as follows:

EDWIN R. A. SELIGMAN . . . . . *McVickar Professor of Political Economy,*  
*Chairman*  
 FRANKLIN H. GIDDINGS . . . . . *Professor of Sociology*  
 FREDERICK J. E. WOODBRIDGE . . . . . *Johnsonian Professor of Philosophy*  
 FELIX ADLER . . . . . *Professor of Social and Political Ethics*  
 JAMES H. CANFIELD . . . . . *Librarian of the University*  
 MISS LAURA D. GILL . . . . . *Dean of Barnard College*  
 FRANK M. MCMURRY . . . . . *Professor of the Theory and Practice of Teaching*  
 MRS. ELSIE CLEWS PARSONS . . . . . *Lecturer in Sociology*  
 WM. ADAMS BROWN . . . . . *Union Theological Seminary*  
 GILBERT A. BEAVER . . . . . *Secretary of Earl Hall, Secretary*  
 JOHN B. ELLIOTT . . . . . *Representing the Union of Settlement Workers*

## FELLOWSHIPS, SCHOLARSHIPS, AND OTHER PROVISION FOR THE ASSISTANCE AND REWARD OF STUDENTS

**NOTE.**—Unless otherwise provided, all stipends of Fellows and Scholars shall be paid in equal semi-annual instalments on the third Saturday of each academic year and the second Wednesday of the second half-year. Before being entitled to receive either instalment of his stipend, each Fellow and Scholar is required to report himself in writing to the Registrar as in residence, on or before the second Wednesday in October and February of the year of his incumbency, in 1904-05, October 12 and February 8.

Fellows and Scholars are required to pay all fees for matriculation, tuition, graduation, and for the use of the Gymnasium. The provisions regarding the maximum fee for the higher degrees do not apply to them.

### General Fellowship Regulations

No Fellow shall be allowed to accept remunerative employment except by permission of the President, and the acceptance of any such employment, without such permission, shall operate to vacate the fellowship.

All Fellows, except as hereinafter provided, shall be required to pursue their studies during the term of their fellowship at the University, residing in New York City or its vicinity during the academic year, unless permission be granted by the President to study elsewhere.

In order that all documents, submitted in support of an application for a fellowship, may be referred to the proper authorities when they reach the University, the envelopes or packages containing such should be distinctly marked, "Submitted by ——— in support of an application for a fellowship in Columbia University." As there is considerable danger that graduation diplomas sent through the mails may be lost or injured, it is suggested that duplicate certificates be submitted in their stead.

### UNIVERSITY FELLOWSHIPS

Eighteen fellowships, annual, of the value of \$650 each, known as "University Fellowships," are awarded by the Council to those graduates of colleges and scientific schools, who give evidence of special fitness to pursue courses of higher study and original investigation. To be eligible to candidacy, the applicant must not be over thirty years of age. Vacancies shall be filled in the same manner in which original appointments are made.

A Fellow may be reappointed at the end of a year for reasons of weight. No Fellow may be reappointed for more than two terms of one year each.

Additional University Fellows may be appointed in cases where the original appointee waives the emolument of the fellowship while accepting the honor of the appointment, and in cases where a University Fellow desires reappointment without emolument.

Application should be made prior to March 1, in writing, on blanks that will be furnished for the purpose, and addressed to the Secretary of Columbia University. Applications and documents submitted in



support thereof received later than March 1, or not distinctly indicating the name of the candidate, may fail of consideration.

The candidate must give evidence:

(a) of a liberal education, such as a diploma from a college or scientific school of good repute;

(b) of decided fitness for a special line of study, such as an example of some scientific or literary work already performed;

(c) of upright character, such as a testimonial from some instructor.

Every Fellow will be expected to take up his residence at the opening of the academic year, and to perform such duties as may be allotted to him in connection with a course of study leading to the degree of Doctor of Philosophy. He will be expected to devote his time to the prosecution of special studies under the direction of the head of the department in which his major subject lies, and before the close of the academic year to give evidence of progress by the preparation of a thesis, the completion of a research, the delivery of a lecture, or by some other method.

No Fellow may pursue a professional or technical course of study during his term. With the written approval of the President, but not otherwise, he may give instruction or assistance in any department of the University.

As these fellowships are awarded as honors, those who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the list of Fellows.

#### SPECIAL FELLOWSHIPS

Unless otherwise specified, the regulations as to the mode of application for the following fellowships, and the conditions governing their award and tenure, are the same as those for University fellowships (see ante). Candidates should indicate clearly upon their application blanks the fellowship for which they are applicants.

#### Tyndall and Barnard Fellowships

The Tyndall Fellowship for the Encouragement of Research in Physics, endowed by Professor John Tyndall, and of an annual value of \$648, and the Barnard Fellowship for Encouraging Scientific Research, endowed by the bequest of the late President Barnard, annual value \$500, are awarded annually by the University Council under the following conditions: The Tyndall Fellowship is available for one or more American pupils who may have shown decided talent in physics, and preferably such as shall express the determination to devote their lives to the advancement of theoretic science and original investigations in that department of learning, and is awarded either to a graduate of the University or to a student in it (not necessarily a candidate for a degree) upon the recommendation of the head of the

Department of Physics. The Barnard Fellowship is awarded upon the joint recommendation of the Faculties of Columbia College, Applied Science, and Pure Science to a graduate of any one of them who, having shown decided aptness for physical investigation, is disposed to devote himself thereto for some years continuously. The recommendation must in each case be made to the President on or before April 1. The appointment is for the term of one year, but the incumbent shall be eligible to reappointment.

It is the duty of a John Tyndall or Barnard Fellow to devote himself faithfully to the investigation of some subject in physical science at this University, or at some other in this country or abroad, under the supervision of some known physicist approved by the President and the head of the Department of Physics. He shall make a report, certified to by the physicist superintending and directing him, quarterly to the President, giving an account of the work in which he has been engaged during the three months preceding.

#### Class of '70 Fellowship

There is a fellowship known as the "Class of '70 Fellowship," of the annual value of \$500, which, after the expiration of the term of the present incumbent, shall be filled by the University Council, subject to such regulations as may be prescribed.

#### George William Curtis Fellowship

The George William Curtis Fellowship is awarded by the University Council for a term of two years upon the recommendation of the Faculty of Political Science in every third year, the next award being July 1, 1907. The Curtis Fellow shall be entitled to receive during his incumbency the net income of the endowment of \$10,000 (in 1903-04, \$400 annually), accruing during a period of three years, and proportionately for any part of the term.

Candidates shall submit an essay or address on the "Immediate Duty of the American Citizen," in addition to complying with the requirements of candidates for University fellowships.

The Fellow shall devote himself to the study of the science of government, with a special view to its application to the then existing condition of the United States or to the State or City of New York; and at or before the conclusion of his second year he shall publish a monograph satisfactory to the Faculty of Political Science on some subject relating thereto. He shall also prepare and publish a brief sketch of George William Curtis as a citizen and orator, showing that he has familiarized himself with the life and character of the man whose memory is to be perpetuated by the fellowship which he has enjoyed.

#### Drisler Fellowship

The Henry Drisler Fellowship in Classical Philology, established in 1894 in commemoration of the semi-centennial in the service of the

University of Professor Henry Drisler, A.B., 1839, is of the annual value of \$650, and is open to Bachelors of Arts of this University, or some other institution of equivalent standing, who have studied Greek and Latin throughout their undergraduate course, and who have an adequate knowledge of French and German. They must present testimonials from their instructors in Greek and Latin as to the quality of their work, and give evidence of fitness for advanced study and research, either by a special examination, or by an essay embodying the results of research in some department of classical study.

The appointment is made by the University Council on the joint recommendation of the professors of Greek and Latin. Recommendations should reach the President on or before April 1, and reappointments may be made for not more than two terms of one year each.

The Fellow must study at this University under the direction of the professors of Greek and Latin, unless permitted by the Council to spend a year in some foreign university, or in the American School of Classical Studies at Athens, or in the American School of Classical Studies in Rome.

#### Garth Fellowship

The Granville W. Garth Fellowship in Political Economy is awarded each year by the University Council in the same manner as University fellowships are awarded and subject to the same regulations. The successful applicant for the fellowship shall be entitled to receive the net annual income of the capital sum of the Granville W. Garth Memorial Fund of \$16,250.

#### Mosenthal Fellowship

The Mosenthal Fellowship, value \$600, in memory of the late Joseph Mosenthal, is designed to aid talented students of musical composition in the study of their art either here or abroad.

It is open both to men and women, not necessarily holders of an academic degree, and is awarded in every even-numbered year by the Council on the recommendation of the Professor of Music.

The Fellow must pursue his or her studies either at Columbia University or under the direction of some master approved by the President and Professor of Music. Applicants are required to have a thorough knowledge of harmony and the elements of counterpoint. Upon request, the Secretary of the University will furnish the special blank form of application for the fellowship.

#### Proudfit Fellowship in Letters

The Alexander Moncrief Proudfit Fellowship in Letters for the encouragement of the study of English Literature, founded by the bequest of Alexander Moncrief Proudfit, is open to any son of native-born American parents who shall have taken the degree of Bachelor of Arts after a three years' residence in Columbia College, and who

shall, while enjoying such fellowship, remain unmarried. The appointment is made by the Council upon the joint recommendation of the professors in the Department of English. Such appointment shall be for the term of one year, and may be renewed, for reasons of weight, for two terms of one year each, and no more. The Fellow shall be entitled to receive during his incumbency the net income of the sum of \$13,875 (in 1903-04, \$555). He shall carry on his studies and research at Columbia University, or elsewhere, under the direction of the professors in the department named.

#### Schiff Fellowship

The Schiff Fellowship in Political Science, the gift of Mr. Jacob H. Schiff, is of an annual value of \$600. The appointment is made each year by the Council upon the recommendation of the Faculty of Political Science, which recommendation is based upon the nomination following: On or before April 1 of each academic year the Faculty of Political Science shall propose to Mr. Jacob H. Schiff while living the name of a suitable person for nomination by him. The conditions to govern the nomination after Mr. Schiff's death will be found in the University Statutes.

#### Carl Schurz Fellowship

The Carl Schurz Fellowship for the Study of the German Language and Literature is awarded, in every even-numbered year, by the Council, upon the recommendation of the professors of the Department of Germanic Languages and Literatures. The Fellow shall be entitled to receive the net income for two years of the capital sum of \$10,000, constituting the endowment contributed by citizens of New York, in commemoration of the seventieth birthday of Carl Schurz. The appointment may be renewed for reasons of weight for a further term of one year, but without additional stipend.

Candidates must present testimonials as to their zeal and success in the study of German, and must by an essay or published treatise give evidence of their fitness for a wider and more profound study of the language and literature and for independent research. They must also have a sufficient knowledge of Latin and French to use these languages readily in the prosecution of their studies. The holder must study at Columbia University under the direction of the Department of Germanic Languages and Literatures, unless permitted by the Council to study at some German university.

#### Annual Fellowships

The Treasurer may receive gifts of money for fellowships for one year or more, provided that no fellowship shall be created for less than \$500 per annum. Such fellowship shall be filled by the University Council, subject to such regulations as may be prescribed.



## UNIVERSITY SCHOLARSHIPS

Thirty University scholarships, of an annual value of \$150, are awarded annually to students under the Faculties of Political Science, Philosophy, and Pure Science, not over thirty years of age, under the following regulations:

1. They are open to all graduates of colleges and scientific schools whose course of study has been such as to entitle them to be enrolled at Columbia as candidates for one of the higher degrees.

2. They are tenable for one academic year, with a possibility of renewal for one year longer.

3. Applications should be filed in writing, not later than May 1, on blanks that will be furnished for the purpose, and addressed to the Secretary of Columbia University.<sup>1</sup>

4. They will be awarded by the University Council at its regular meeting in May, upon the recommendation of the Committee on University Scholarships. The Committee will give preference to those candidates for University fellowships who have failed of appointment after having been recommended therefor by any faculty or department.

5. University scholars will be required to enroll themselves as candidates for one of the higher degrees and to pursue a regular course of study leading thereto.

6. Additional scholars may be appointed by the Committee to fill any vacancies occurring otherwise than by the graduation of an incumbent.

7. A University scholar may, with the consent of the President, assign the income thereof to any properly qualified candidate without waiving his right to be designated as a University scholar.

8. University scholars may be held liable to serve as proctors at the autumn entrance examinations and at the semi-annual and concluding examinations without fee. They will not be called upon for service at times that interfere with their own academic work. Due notice of their assignments will be sent to them.

## President's University Scholarships

In addition to the University scholarships, eight scholarships, known as the President's University Scholarships, are awarded by the University Council, governed by the regulations attached to the University scholarships, and by such further regulations as may from time to time be adopted by the Trustees.

## University Scholarships for Women

Four University scholarships, known as the Curtis University Scholarships, will be awarded annually to women students under the

<sup>1</sup> See also the last paragraph under Fellowship Regulations, page 32.

Faculties of Philosophy, Political Science, and Pure Science. These scholarships are awarded under the same regulations as those governing the University scholarships.

#### SPECIAL SCHOLARSHIPS

##### Richard Butler Scholarship

The Richard Butler Scholarship, tenable for one academic year, with the possibility of renewal for each of two years more, for the benefit of male students born in the State of Ohio, is open for competition to qualified candidates who propose to enter Columbia College, or one of the non-professional Schools of Political Science, Philosophy, or Pure Science, or the professional Schools of Law, Medicine, Applied Science, or Architecture. The annual value is the income of a fund of \$5000, given for the establishment of the scholarship.

Applications should be made under the same regulations as those for University Scholarships.

The Committee on University Scholarships will recommend to the University Council the appointment of that candidate who in the opinion of the Committee is best qualified to receive it.

##### Pulitzer Scholarships

Through the generosity of Mr. Joseph Pulitzer, male graduates of the public high-schools of Manhattan and the Bronx, not to exceed forty at any time, are awarded scholarships upon competitive examination. Each scholarship so awarded may be held for a period of four years in the College or in any department of the University except the Medical School. The scholarship will be withdrawn if at any time the holder fails to maintain a satisfactory standard in his academic work. During his term the scholar receives from Mr. Pulitzer the sum of \$250 a year over and above the cost of his tuition. Full information regarding the conditions under which these scholarships are awarded will be furnished, upon application, by the Secretary of the University.

##### John D. Jones Scholarship

The Wawepex Society makes annual provision for a scholarship amounting to \$200 and including the use of a table at the biological laboratory at Cold Spring Harbor, L. I. The award is made by the University Council upon the recommendation of the Department of Zoölogy.

##### Annual Scholarships

The Treasurer may receive gifts of money for scholarships for one or more years, provided that no such scholarship shall be for a less sum than the annual tuition fee of the College or of the school in which it is provided.

## MEDALS AND PRIZES

Essays submitted in competition for any of the following should, unless otherwise indicated, be submitted to the Secretary of the University not later than May 1, in the year of award. The awards are announced at Commencement.

**National Society of the Sons of the American Revolution Medal**

This Society offers a silver medal:

Competition by members of the senior class in the College, and to first-year students, not graduates of the College, studying under any of the faculties of the University. Each candidate must submit a typewritten essay of not less than 1600 and not more than 2000 words upon "The Principles Fought for in the War of the Revolution." The Committee of Award shall consist of the professors giving instruction in American History. The prize shall in no case be awarded for an essay defective in English composition.

A similar tender has been made to the principal colleges of the country, and the essays receiving the silver medals will be submitted to a committee of the National Society in competition for a gold medal to be awarded to the writer of the essay deemed most meritorious.

**Barnard Medal**

A gold medal of the value of \$200 established by the provisions of the will of President Barnard and endowed by him, known as the "Barnard Medal for Meritorious Service to Science," is awarded quinquennially to such person, if any, whether a citizen of the United States or any other country, as shall within the five years next preceding have made such discovery in physical or astronomical science, or such novel application of science to purposes beneficial to the human race, as in the judgment of the National Academy of Sciences of the United States shall be esteemed most worthy of such honor. The award of 1895 was to Lord Rayleigh, F.R.S., and Professor William Ramsay, F.R.S., and that of 1900 to Professor Wilhelm Conrad von Röntgen.

**Bennett Prize**

A prize of \$40 established by Mr. James Gordon Bennett, may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporaneous interest in the domestic or foreign policy of the United States, the subject for 1904-05 being "The Immigration Problem in the United States." The competition is open to seniors in the College and to other students not holding a baccalaureate degree, who pursue courses amounting to six hours a week in the School of Political Science.

**Bunner Medal**

The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the



candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a committee to be appointed by the President. The subject for the essays to be handed in on May 1, 1905, is "American Tragedy"; for 1906, "Thomas Jefferson as a Man of Letters"; for 1907, "The Hartford Wits."

#### Loubat Prizes

Mr. Joseph F. Loubat has endowed two prizes of \$1000 and \$400, respectively, for the best works published in the English language upon the history, geography, archæology, ethnology, philology, or numismatics of North America. Competition is open, under the deed of gift, to all persons, whether connected with Columbia University or not, and whether citizens of the United States or of any other country. No treatises shall be eligible for the purposes of the competition except such as relate to the topics involving antiquarian research, or that refer to events prior to 1776. In order to insure consideration of their works, authors are invited to send copies to the President of Columbia University not later than April 1 of the year in which the prize is to be awarded; but the competition will not be restricted to works thus submitted. Copies of the regulations adopted by the Trustees can be obtained from the Secretary of the University.

The list of subjects given above is divided into two groups, in which the award will be made alternately. These groups consist, respectively, of history, geography, and numismatics; and of archæology, ethnology, and philology.

The foundation shall be employed to stimulate research and not simply to reward the authors of meritorious works published without reference to these prizes; the University may call for the investigation of certain questions and the publication of the results, and the best works produced in answer to this call, if of sufficient value, will receive the prizes. The awards to be made in 1908 shall be conferred for works relative to subjects in the first group. One or more special topics of investigation may be recommended, and the awards limited primarily to works upon such topic or topics.

For names of the Committee of Award for 1908, and for further details, address the Secretary of the University.

#### *Award of 1893*

First Prize, HENRY ADAMS, for his "History of the United States of America during the Administrations of Jefferson and Madison."

Second Prize, A. F. BANDELIER, for his "Report of Investigations among the Indians of the Southwestern States."

#### *Award of 1898*

First Prize, WILLIAM HENRY HOLMES, for his work entitled "Stone Implements of the Potomac—Chesapeake Tidewater Province."

Second Prize, FRANZ BOAS, Ph.D., for his monograph entitled "The Social Organization and the Secret Societies of the Kwakiutl Indians."

*In 1903, no award*

#### **Grant Squires Prize**

A prize known as the Grant Squires Prize, the income for five years of a fund of \$1000, established by Grant Squires, A.B. '85, LL.B. '87, is awarded at Commencement at the close of every quinquennial period, to such graduate conducting an original investigation of a sociological character as shall be adjudged most worthy by a Committee of Award, consisting of the President, the Professor of Sociology, and one of the professors of Political Economy, appointed by the Faculty of Political Science. The next award will be in 1905. Such award shall be deemed to be a recognition of scientific ability and achievement, as well as an encouragement of research.

#### **Toppan Prize**

A prize known as the Robert Noxon Toppan Prize, of \$150, endowed in memory of Robert Noxon Toppan, LL.B. '61, is awarded annually to the member of the School of Law or of Political Science who shall pass the best written examination upon a paper prepared by the professor in charge of the department of Constitutional Law.

#### **Prize of the Dante Society**

The Dante Society of Cambridge, Mass., offers an annual prize of \$100 for an essay on a subject drawn from the life or works of Dante. This prize is open to competition by students of Columbia University and by graduates of not more than three years' standing. For particulars, see the announcement of the Division of Modern Languages.

### **Scholarships and Prizes in Columbia College**

Seventy-two scholarships, of the annual value of \$150 each, are offered specifically in the College. These scholarships are intended to be academic honors, and the holders are divided into three groups. The first group contains only those whose work entitles them to high academic distinction. The second consists of students of marked excellence who have not attained a position in the first group. The third comprises meritorious students to whom scholarships have been awarded on grounds of special claim. The names of holders of scholarships in groups 1 and 2 are published in the University catalogue.

The enjoyment of a scholarship for one year does not constitute a title to a second nomination, and no student may hold more than one scholarship at a time. No student who has incurred serious academic censure in the course of the year will be considered as a candidate.

The payment of one or both instalments of the scholarships may be withheld if a student proves undeserving.

**Section I.** Scholarships awarded to freshmen on the basis of competitive entrance examinations, tenable for one year. The Committee on Admissions awards these scholarships in the order given annually to those qualified competitors who pass the best entrance examinations in subjects aggregating the fifteen points requisite for admission, in June of the entering year. The examination may be taken at any point in the Greater New York where examinations are held by the College Entrance Examination Board. A grade below C in any department will forfeit the scholarship. No applications need be filed by candidates for these scholarships. Reappointment may be made by the Committee on Scholarships under certain conditions for succeeding years.

Awarded not later than July 15:

#### Competitive

Alumni Competitive Scholarships.....	4
Founded by the Trustees in 1890, one awarded annually.	
Hewitt and Harper Scholarships (2 each).....	4
Endowed by Abram S. Hewitt, LL.D., Class of '42, and Joseph W. Harper, A.M., Class of '48. One scholarship is open annually for competition to graduates of New York City high schools.	
Brooklyn Scholarships.....	12
Founded by the Trustees in 1895, in recognition of President Low's gift of a memorial building for the University Library. Three of these scholarships are open for competition annually to residents of Brooklyn who have received their training either in the public or the private schools of that borough.	

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**Section II.** Scholarships awarded to applicants by the Committee on Scholarships:

#### Faculty, Beck, Campbell, and Class of '48

Six Faculty Scholarships established by the Trustees for award by the Faculty to students whose record for ability and scholarship, obtained either before or after matriculation, gives evidence of special fitness for the course of study which they propose to pursue, and who need pecuniary aid to obtain an education. Open to students of any class.... 6

The following scholarships are also awarded by the Faculty of the College in the same manner and subject to the same conditions as the Faculty Scholarships:

Carried forward..... 6—20

Brought forward.....	6—20
Beck Scholarship.....	1
Established in recognition of the liberality of Charles Bathgate Beck, LL.B., Class of '77.	
Campbell Scholarships.....	2
In memory of Robert B. Campbell of the Class of '44, and Henry P. Campbell of the Class of '47, established by Miss Maria L. Campbell and Miss Catharine B. Campbell.	
Class of '48 Scholarships.....	2
Established through the liberality of a member of the Class of '48.	

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## Endowed

Schermerhorn Scholarships.....	5
Endowed by John Jones Schermerhorn, A.B., of the Class of '25. Open to freshmen only.	
Moffat Scholarships.....	2
Endowed by William B. Moffat, A.B., of the Class of '38; M.D., '42. Open to freshmen only.	
Stuart Scholarships.....	2
Endowed in memory of Sidney Barculo Stuart, Class of '80, and Eugene Talman Stuart, Class of '81, by their grandmother, Cornelia A. Atwill. Open to freshmen only.	
Alumni Association Scholarships.....	4
Established by the Trustees in recognition of the interest that the Alumni Association has always shown in the affairs of the College. Open to freshmen only.	
Society for Promoting Religion and Learning Scholarships....	8
Founded by the Society for Promoting Religion and Learning, and awarded upon the nomination of that Society.	
Two students in each class.	

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## Benefactors

Morgan Scholarships.....	5
Vanderbilt Scholarships.....	5
A. A. Low Scholarships.....	3
Cutting Scholarships.....	2
Clark Scholarships.....	2
Sloan Scholarship.....	1
Parish Scholarship.....	1
Schiff Scholarship.....	1

—20

Established by the Trustees in 1899 in recognition of the liberal gifts for the purchase of the site on Morningside Heights received from J. Pierpont Morgan, Cornelius Vanderbilt, A. A. Low, R. Fulton Cutting, Alfred Corning Clark, Samuel Sloan, Henry Parish, Jacob H. Schiff, and others, designated collectively as "Benefactors Scholarships," of which the above have been assigned to the College. Open to students who have been not less than one year in the College.

Total—72



Scholarships under Section II are awarded under the following conditions:

Applications for scholarships must be made to the Committee, on blanks provided for the purpose, that may be obtained of the Secretary of the University.

The term of all scholarships is one year only. Should a renewal be desired by any scholar he must make formal application for the same as in the first instance.

Students not in need of aid cannot be considered as applicants, nor will scholarships be assigned to candidates who through physical, mental, or moral weakness give little promise of future usefulness. Scholarships falling vacant may be filled at the discretion of the Committee.

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In addition to the scholarships named above the Richard Butler Scholarship is open to students of the College. See page 38.

A summary of the scholarships, showing those available to students in each class of the College, will be found in the *Announcement of Columbia College*.

#### Prize of the Alumni Association

A prize of fifty dollars in money or its equivalent, at the option of the receiver, established by the Association of the Alumni of Columbia College, was first awarded at Commencement in June, 1858. It is given "to the most faithful and deserving student of the graduating class."

Three names are selected by the Faculty and submitted to the class, who from these three designate one to receive the prize. Should the class at any time fail to make the selection, and give notice thereof to the President of the University at least ten days prior to the day appointed for Commencement, the selection of the student to receive the prize may be made by the Faculty.

#### Chanler Historical Prize

By the bequest of J. Winthrop Chanler, A.B. '47, the income of \$1000 is awarded annually, on Commencement Day, to the member of the senior class of Columbia College who, in the judgment of the Faculty, shall be the author of the best original manuscript essay on the history of civil government in America, or some other historical subject.

#### Curtis Medals

Through the generosity of an associate of the late George William Curtis in the work of Civil Service Reform, an endowment fund of \$1000 has been established for the award of two medals of gold and silver for excellence in public delivery of English orations to students in Columbia College. Competitors must be either juniors or seniors in regular standing, or in exceptional cases, and with permission of the



Dean, special students taking junior or senior courses amounting to not less than 12 hours a week. The Department of English publishes about November 1 a list of subjects for the competition. Subjects not on the list may be chosen with the consent of the department provided that application be made not later than December 1. The contestants will be selected by the department at a preliminary competition which will not be open to the public. The final public competition will be held not less than two weeks later. The award will be made by judges appointed by the President.

#### General Theological Seminary Prizes

Regulations as to the Seminary prizes adopted by the Protestant Episcopal Society for Promoting Religion and Learning in the State of New York, at a stated meeting held on April 25, 1900:

1. Notice shall be given every year of the conditions of the prizes under the old regulations (see *Announcement of the College for 1900-01*, page 72), and applications invited. Wherever the conditions of the preceding competition show that one or both of the prizes have not been taken for lack of applicants, notice shall at the same time be given of the competition for the prize or prizes thus open under the new regulations set forth each year in the *Announcement of Columbia College*.

The Society's Greek Seminary Prize amounts to \$30 and the Society's English Prize to \$20.

#### Scholarship in the General Theological Seminary

The scholarship in the General Theological Seminary of the Protestant Episcopal Church (heretofore placed at the disposal of the Trustees of Columbia University by the Society for Promoting Religion and Learning in the State of New York) is awarded upon the following conditions:

All candidates shall comply with the requirements for admission to the General Theological Seminary as candidates for the ministry of the Protestant Episcopal Church, and must have taken the degree of Bachelor of Arts and have graduated with honors.

All candidates shall report themselves to the Educational Committee of such Society at least three months previous to the examination to be held by the Faculty for the purpose of awarding such scholarship.

#### Scholarships and Prizes in the School of Law

Twenty-one scholarships of the annual value of \$150 each are available annually for award to candidates for the degree of Bachelor of Laws standing in need of pecuniary aid and whose record for ability and scholarship gives evidence of special fitness for the work of the school.

The scholarships will be awarded by the Faculty at its meeting in June, immediately preceding Commencement. Scholarships not allotted at the June meeting, or becoming vacant, may be filled by the Faculty at its discretion. The awards will be made public not later than July 1.

Applications should be made in writing, not later than May 1, on blanks which will be furnished for the purpose by the Secretary of the University.

*Benefactors Scholarships.*—Eight Morgan and eight Vanderbilt Scholarships, known as Benefactors Scholarships, may be awarded to students who have been in the school for at least one year.

*Faculty Scholarships.*—Four Faculty Scholarships of the annual value of \$150 each may be awarded to members of any class who are college graduates.

*Beck Prize Scholarship.*—The Charles Bathgate Beck Prize Scholarship is awarded to the member of the first-year class in the Law School who, having reported himself in writing to the Dean as a candidate for this scholarship, shall pass the best examination in the subjects of the Law School course relating to Real-Estate Law. The holder shall, provided he remains a member of the school, receive one year's income of the prize fund established by the will of Charles Bathgate Beck in equal semi-annual instalments, during the two years following the award. If two or more students pass examinations of equal merit, the income of the fund may be subdivided.

## Fellowships, Scholarships, and Prizes in the College of Physicians and Surgeons

### Alumni Association Fellowships

Three Fellowships of the Alumni Association of the College of Physicians and Surgeons, maintained by the Association, were established in 1891.

These fellowships are open to graduates of the College of Physicians and Surgeons who have shown special aptitude for scientific research in the Departments of Anatomy, Physiology, and Pathology. They are held for a period of one year, and have an annual value of \$500 each. Appointments are made by the Executive Committee of the Alumni Association from candidates presented to them by the professors of Anatomy, Physiology, and Pathology.

Incumbents are expected to devote themselves to scientific research in the department which they may elect, either in Columbia University, where they enjoy free tuition and the privileges of the laboratories, or in other institutions either here or abroad at their own expense, and at the end of the year's work to present to the Association a thesis containing evidence of independent or original work in their special department.

**Proudfit Fellowship in Medicine**

The Maria McLean Proudfit Fellowship, the net income of \$15,000, endowed by the late Alexander Moncrief Proudfit, A.B. '92, for the encouragement of advanced studies in medicine, is open to any son of native-born American parents, a graduate in medicine, who shall pursue advanced studies in internal medicine under the direction of the Medical Faculty of the University, and who shall, while enjoying such fellowship, remain unmarried, and shall be appointed by the University Council upon the recommendation of the Faculty of Medicine. Appointment shall be made every four years, beginning in 1904, upon terms to be designated by the Faculty. A vacancy may be filled for any unexpired term. The Fellow shall carry on his studies and research under the direction of the Faculty of Medicine.

**Alonzo Clark Scholarship**

By the will of the late Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons, and Professor of Pathology and Practical Medicine, it has been placed in the power of the Medical Faculty to bestow a scholarship, with an income of about \$600 a year, for the purpose of promoting the discovery of new facts in medical science.

**Harsen Scholarships**

The income of a fund established by the late Jacob Harsen, M.D., in 1859, for the purpose of "promoting the study of Medical and Surgical Practice," has, under an order of the Supreme Court, been made available for the award of scholarships to students in the College of Physicians and Surgeons, in lieu of the Harsen prizes heretofore awarded. These scholarships, which are known as the Harsen Scholarships, are of the annual value of \$250 each, and are available annually, and tenable for one year. Two each may be awarded to students in the second, third, and fourth year of the course, provided that the aggregate of the stipends of such scholarships shall not exceed the income earned by the fund during the preceding year. The award of these scholarships is made under regulations established by the Faculty of Medicine only to students whose record for ability and scholarship gives evidence of special fitness and who need pecuniary aid to obtain an education.

**Faculty and Vanderbilt Scholarships**

Four Faculty and four Vanderbilt Scholarships (the latter established in recognition of the liberal gifts of the late William H. Vanderbilt) are open to students in any class who are in need of pecuniary assistance and whose record for ability and scholarship gives evidence of special fitness.

**Alumni Association Prize**

The Alumni Association Prize of \$500 is awarded biennially (next award, Commencement, 1906) to an alumnus of the College of Physicians and Surgeons for the best medical essay submitted upon any

subject that the writer may select. If, however, no essay should be deemed sufficiently meritorious, the prize will not be awarded. Essays should be sent to the Secretary of the Alumni Association of the College of Physicians and Surgeons on or before April 1 of the year of award.

#### **Cartwright Prize of the Alumni Association**

The Cartwright Prize of \$500 was endowed by a bequest of \$10,000 left by Benjamin Cartwright, and is offered for competition in alternate years with the Alumni Association Prize.

It is awarded on the same terms as the latter, except that it is open to universal competition. Essays in competition for the prize to be awarded at Commencement, 1905, must be sent to the Secretary of the Alumni Association on or before April 1, 1905.

#### **Joseph Mather Smith Prize**

The fund for the Joseph Mather Smith Prize was given by the relatives, friends, and pupils of the late Dr. Smith, as a memorial of his services as Professor of Materia Medica in the College of Physicians and Surgeons from 1826 to 1866. Under the provisions of the trust an annual prize of \$100 is awarded for the best essay (if sufficiently meritorious) on the subject of the year, presented by an alumnus of the College of Physicians and Surgeons. The competing essays should be sent to the Dean of the College of Physicians and Surgeons on or before March 10.

#### **Stevens Triennial Prize**

The Stevens Triennial Prize, value \$200, established by the late Alexander Hodgdon Stevens, M.D., formerly President of the College of Physicians and Surgeons, is open for universal competition.

The Dean of the Medical Faculty, the President of the Alumni Association of the College of Physicians and Surgeons, and the Professor of Physiology, are, ex-officio, the administrators of the prize. Essays must be in the hands of the first-named on or before January 1, 1906.

### **Scholarships and Prizes in the Schools of Mines, Chemistry, Engineering, and Architecture**

Applications for scholarships should be made in writing on blanks, which will be furnished for the purpose by the Secretary, and addressed to the Committee on Scholarships. They should be made on or before May 1, as any received later than this date may fail to receive consideration.

The award of scholarships will be made not later than July 1. Scholarships not allotted at this time, or becoming vacant, may be filled by the Committee at its discretion.

Scholarships granted in the first year of a student's connection with the University shall be for a half-year only, and shall be continued to



those candidates only who have maintained a satisfactory academic standing during that period.

In awarding scholarships, preference will be given always to students of good academic standing and free from entrance conditions or other deficiencies. Scholarships will be awarded only to applicants who intend to complete one of the regular courses.

#### **Benefactors Scholarships**

In recognition of the liberal gifts for the purchase of the site on Morningside Heights which have been received from J. Pierpont Morgan, Cornelius Vanderbilt, D. Willis James, Morris K. Jesup, Samuel D. Babcock, Oswald Ottendorfer, and others, the Trustees have established a number of scholarships, known collectively as "Benefactors Scholarships," twenty-seven of which, of the annual value of \$250 each, are open to students in the Schools under the Faculty of Applied Science, as follows: seven Morgan, seven Vanderbilt, ten James, one Jesup, one Babcock, and one Ottendorfer. These scholarships may be awarded to students who have been in the University for at least one year, and whose record for ability and scholarship gives evidence of special fitness for the course of study which they propose to pursue.

#### **Marcus Daly Scholarships in Mining Engineering**

The Marcus Daly Scholarship of the annual value of \$1000, maintained by Mrs. James W. Gerard in memory of her father, is open to those candidates who work or have worked in the Montana mines, or to their descendants, and who pass the best competitive entrance examinations upon the requirements for admission to the Schools of Applied Science. Reappointment for succeeding years in the course of Mining Engineering is upon the same conditions as those imposed upon the holders of competitive scholarships in Columbia College, see page 42. For particulars as to certificates of eligibility and place and date of the entrance examinations see the separate Announcement of the Schools of Applied Science.

#### **Faculty Scholarships**

In addition to the above, eight Faculty Scholarships of the annual value of \$250 each may be awarded to members of any class whose records for ability and scholarship, obtained either before or after matriculation, give evidence of special fitness for the course of study which they propose to pursue.

#### **Lawrence Scholarship**

Through the generosity of Mr. Benjamin B. Lawrence of the Class of '78, Applied Science, a Scholarship in Mining Engineering of the value of \$250 has been available annually for a deserving student in the course in mining engineering.



**Illig Medals**

A bequest of \$2000 left by William C. Illig, E.M. '82, provides for the annual award at Commencement to the student or students in the graduating class of one of the Schools of Applied Science, who shall, in the judgment of the Faculty, have merited the same by commendable proficiency in their regular studies.

**Darling Prize**

A prize to be known as the Edward A. Darling Prize in Mechanical Engineering shall be awarded annually to the most faithful and deserving student of the graduating class in mechanical engineering, the recipient of the prize to be chosen each year by ballot by members of the graduating class in the Course in Mechanical Engineering from among three names to be chosen by the Faculty of Applied Science; the amount of the prize to be the annual income of the sum of \$1000, bequeathed to the University by Edward A. Darling, formerly Superintendent of Buildings and Grounds.

**Fellowships in the School of Architecture****Columbia Fellowship**

The Columbia Fellowship in Architecture, the net income for two years of \$13,000, established in recognition of the gifts of F. Augustus Schermerhorn, E.M. '68, to the department of Architecture, is open to all graduates of the School of Architecture less than thirty years of age. It is awarded at Commencement in every even-numbered year under such rules and regulations as shall from time to time be determined by the President and the Professor of Architecture. Holders of such fellowships shall devote the income thereof to foreign study and travel in accordance with plans prepared by themselves and approved by the President and such professor, and shall upon return present a written report and exhibit drawings in the School of Architecture.

**McKim Fellowships**

Two fellowships, known as the McKim Fellowships in Architecture, endowed by gift of Charles F. McKim of \$20,000, are awarded in every uneven-numbered year, upon like conditions and for like purposes as are specified for the Columbia Fellowship.

**Perkins Fellowship**

A travelling fellowship, the net income from a fund of \$5700, from the bequest of the late Willard B. Perkins, is awarded every fourth year, the next award being in 1906. The conditions of award and the purposes of the fellowship are the same as for the Columbia and McKim Fellowships.

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For the regulations as to Scholarships in the School of Architecture, see page 48.

For the Fellowships, Scholarships and Prizes in Barnard College, Teachers College, and the College of Pharmacy, see the Table of Contents.

## SPECIAL FUNDS

The following funds have been given to the Trustees from time to time and are held by them for the purposes specified:

## GEBHARD FUND:

Bequest of Frederick Gebhard of \$20,000, for the endowment of a professorship in the German Language and Literature. 1843

## FUND OF THE SOCIETY FOR PROMOTING RELIGION AND LEARNING:

Gift (through Professor McVickar) of \$1000, for the endowment of two prizes. "The Society's Greek Seminary Prize," and "The Society's English Seminary Prize." 1852

## HARSEN PRIZE FUND:

Bequest of Jacob Harsen, M.D., Class of 1825, of \$31,114.10, for the endowment of prizes to be awarded to students in the College of Physicians and Surgeons. 1859

## MOFFAT SCHOLARSHIP FUND:

Bequest of William B. Moffat, M.D., Class of 1838, of \$2000, for the endowment of scholarships. 1862

## STEVENS PRIZE FUND:

Gift of Dr. A. H. Stevens, Professor of Surgery, 1860-1867, of \$1899.88, for the endowment of a prize. 1866

## JOSEPH MATHER SMITH PRIZE FUND:

Subscription fund of \$2337.81, as a memorial of Dr. Smith, for the endowment of a prize in the College of Physicians and Surgeons. 1874

## CHANLER PRIZE FUND:

Bequest of John Winthrop Chanler, Class of 1847, of \$1000, for the endowment of an essay prize. 1877

## SCHERMERHORN SCHOLARSHIP FUND:

Bequest of John Jones Schermerhorn, Class of 1825, of \$5000, for the endowment of scholarships. 1877

## TYNDALL FELLOWSHIP FUND:

Gift of John Tyndall, LL.D., Professor of Natural History in the Royal Institution of Great Britain, of \$10,945.50, for the endowment of a fellowship in Physics. 1885

## ALONZO CLARK SCHOLARSHIP FUND:

Gift of \$14,000 as a memorial of Alonzo Clark, President of the College of Physicians and Surgeons, 1875-1884, for the endowment of a scholarship. 1887

## McKIM FUND:

Gift of Charles F. McKim of \$20,000, for the endowment of travelling fellowships in Architecture. 1889

## COLUMBIA FELLOWSHIP IN ARCHITECTURE FUND:

Gift of F. Augustus Schermerhorn, Class of 1868, of \$13,000, to the School of Architecture, applied to the endowment of a travelling fellowship in Architecture. 1889

## BARNARD FUND FOR THE INCREASE OF THE LIBRARY:

Bequest by President Barnard of \$59,501.64, and augmented by a bequest by his widow, Margaret M. Barnard, of \$16,231.67, to endow a fund for the purchase of books, especially those relating to physical or astronomical science, and for the award of a medal for discovery in Physics or Astronomy. 1889 and 1892

## BARNARD FELLOWSHIP FUND:

Bequest by President Barnard of \$10,000, for the endowment of a fellowship for encouraging scientific research. 1889

## DACOSTA FUND:

Bequest of Charles M. DaCosta, Class of 1855, Trustee 1886-1890, of \$100,000, has provided \$86,576.83, applied to the endowment of the DaCosta Professorship of Zoölogy; and of \$20,000 used for fitting up the DaCosta Laboratory of Zoölogy. 1890

## SLOANE MATERNITY HOSPITAL FUND:

Gift of William D. Sloane and Emily Thorn Vanderbilt Sloane, of \$475,000, for the endowment of the Hospital. 1890 }  
1904 }

## VANDERBILT CLINIC ENDOWMENT FUND:

Gift of Cornelius Vanderbilt, William K. Vanderbilt, Frederick W. Vanderbilt, and George W. Vanderbilt, of \$115,000, for the endowment of the Clinic. 1890

## AVERY ARCHITECTURAL FUND:

Gift of Samuel P. Avery and Mary Ogden Avery of \$30,000, in memory of their deceased son, Henry Ogden Avery. The income to be applied to the purchase of books relating to architecture, decorations, and allied arts. 1890

## LOUBAT FUND:

Gift of Joseph F. Loubat of \$7000, for the endowment of two prizes of \$1000 and \$400 to be awarded once in every five years. See page 40. 1892

## TROWBRIDGE FUND:

Gift of \$10,000, for the endowment of a fellowship in Engineering as a memorial of William P. Trowbridge, Ph.D., LL.D., Professor of Mining Engineering, 1877-1892, subject at present to a life interest. \$50,448.75 on hand. 1893

## PULITZER SCHOLARSHIP FUND:

Gift of Joseph Pulitzer of \$100,000, for the endowment of scholarships. 1893

## BENNETT PRIZE FUND:

Gift of James Gordon Bennett of \$1000 for the endowment of an essay prize. 1893

## HENRY DRISLER CLASSICAL FUND:

Gift of \$10,000, presented by Seth Low, LL.D., Class of 1870, in commemoration of the semi-centennial of Professor Drisler in the service of the College, for the endowment of a fund for the purchase of books and works of art for the Greek and Latin departments. 1894

## GRANT SQUIRES FUND:

Gift of Grant Squires, Class of 1885, of \$1050, for the endowment of an essay prize. 1895

## STUART SCHOLARSHIP FUND:

Gift of Mrs. Cornelia A. Atwill of \$6000, for the endowment of the "Stuart Scholarships" in memory of her grandsons, Sidney Barculo Stuart, Class of 1880, and Eugene Talman Stuart, Class of 1881. 1896

## ALEXANDER I. COTHEAL FUND FOR THE INCREASE OF THE LIBRARY:

Gift of Mrs. Samuel R. Lawrence and Mrs. James R. Swords of \$6000, in memory of their brother, Alexander I. Cotheal, for the endowment of a fund for the purchase of books in the Oriental languages, or relating to Oriental subjects. 1896

## ROBERT CENTER FUND FOR INSTRUCTION IN MUSIC:

Gift of Mrs. Mary Elizabeth Ludlow of real estate and securities valued at \$178,046.50, for the endowment of a fund for instruction in music as a memorial of her son, Robert Center, applied to the maintenance of a professorship. 1896

## STUDENTS' LOAN FUND:

Gift of Jacob H. Schiff of \$5000, for the aid of needy students. 1896

## H. C. BUNNER PRIZE FUND:

Gift of \$1000, for the endowment of an essay prize. 1896

## ILLIG FUND:

Bequest of William C. Illig, Class of 1882 (S. of M.), of \$2000, for the endowment of scholarship medals. 1897

## MOSENTHAL FELLOWSHIP FUND:

Gift of friends of the late Joseph Mosenthal of \$7500, to found a fellowship in Music. 1898



## PERKINS FELLOWSHIP FUND:

Bequest of Willard B. Perkins of \$5700, for a travelling fellowship in Architecture, awarded quadrennially. 1898

## SCHIFF FELLOWSHIP FUND:

Gift of Jacob H. Schiff of \$15,000, to found a fellowship to be awarded by the Faculty of Political Science on the nomination of the donor or his eldest living male descendant. 1898

## SEIDL FUND:

The proceeds, amounting to \$12,000, of a memorial performance (March 23, 1899), in honor of the late Anton Seidl. The income to be paid to Mrs. Seidl during her lifetime, and thereafter "to be applied to a Fellowship in Music in Columbia University." 1899

## WARING MUNICIPAL FUND:

The Chamber of Commerce of the State of New York, in 1898, raised by public subscription the sum of \$100,000, to perpetuate the memory of the late Col. George E. Waring. The income thereof to be paid to the widow and daughter of Colonel Waring during their lifetime, and thereafter to be devoted to instruction in municipal affairs. 1899

## FUND FOR THE ENDOWMENT OF THE ABRAHAM JACOBI WARD FOR CHILDREN IN ROOSEVELT HOSPITAL:

Gift of an anonymous donor of \$50,000, "to endow a ward for children in the Roosevelt Hospital." 1899

## BECK FUNDS:

The late Charles Bathgate Beck, A.B. Class of 1877, LL.B. Class of 1879 (who died in 1894), bequeathed the sum of \$10,000: \$2000 to found one scholarship in Columbia College; \$8000 to endow a prize in the Law School. 1899

## CURTIS FUND:

Gift of the George William Curtis Memorial Committee of \$10,000, to establish the George William Curtis Fellowship in the School of Political Science. 1899

## DYCKMAN FUND:

Gift of Isaac Michael Dyckman of \$10,000, in memory of his uncles, Dr. Jacob Dyckman and Dr. James Dyckman, both of the College of Physicians and Surgeons, to establish the "Dyckman Fund for the Encouragement of Biological Research." 1899

## ALEXANDER MONCRIEF PROUDFIT FELLOWSHIP FUND:

Legacy of \$15,000 from the late Alexander Moncrief Proudfit, to found The Alexander Moncrief Proudfit Fellowship in Letters. 1899



MARIA McLEAN PROUDFIT FELLOWSHIP FUND, SCHOOL OF MEDICINE :  
Legacy of \$15,000 from the late Alexander Moncrief Proudfit, to  
found The Maria McLean Proudfit Fellowship in Medicine.

1899

## TRUST FUND FOR PSYCHOLOGY:

Gift of \$100,000 from John D. Rockefeller, as an endowment of the  
head professorship of the Psychological Department of Columbia  
University.

1899

## CARL SCHURZ FELLOWSHIP FUND:

Fund of \$10,000 from the Carl Schurz Fund Committee, to estab-  
lish a fellowship in honor of Carl Schurz.

1900

## CARL SCHURZ LIBRARY FUND:

Fund of \$10,000 from the Carl Schurz Fund Committee, established  
in honor of Carl Schurz, the income to strengthen the Library  
in the field of the German Language and Literature.

1900

## LAW BOOK TRUST FUND:

Created by act of the Trustees on March 5, 1900, by the consoli-  
dation of the Alexander Cole Gift (\$1500); John Jay Jenkins  
Legacy (\$500); John McKeon Fund (\$1000); Sampson Simpson  
Fund (\$1000); and the Edgar J. Nathan Gift (\$250); total, \$4250,  
the income to be applied to the purchase of law books.

1900

## CAMPBELL SCHOLARSHIP FUND:

Gifts of \$3000 each from Miss Maria L. Campbell and Miss Cath-  
arine B. Campbell, for the establishment of two scholarships in  
the College, in memory of Robert B. Campbell of the Class of  
1844, and Henry P. Campbell of the Class of 1847.

1901

## GERMAN LECTURE FUND:

Gifts to the sum of \$1000 for an endowment of Public Lectures in  
German at the University.

1901

## EATON PROFESSORSHIP FUND:

Bequest of the late Dorman B. Eaton of \$100,000, to endow and  
maintain a Professorship of Administrative Law and Muni-  
cipal Science.

1901

## DEAN LUNG PROFESSORSHIP IN CHINESE FUND:

Gift of anonymous friends, of \$213,000 towards the founding of a  
Department of Chinese Languages, Literatures, Religion, and  
Law, and especially for the establishment of the Dean Lung  
Professorship of Chinese.

1901

## CLASS OF 1848 SCHOLARSHIP FUND:

Gift of \$10,000 of an anonymous friend to found two scholarships  
in the College.

1902

## GEORGE WILLIAM CURTIS MEDALS FUND:

Gift of \$1000 from an associate of George William Curtis in the Civil Service Reform work to establish this fund. 1902

## PHILOLEXIAN CENTENNIAL WASHINGTON PRIZE FUND:

Gift to the Philolexian Society from J. Ackerman Coles, Class of 1864. The accumulated interest is to be expended every four years for a duplicate of the life-size bronze bust of George Washington, modelled from life at Mount Vernon, by Jean Antoine Houdon, to be cast at the Barbedienne Foundry, Paris, France. The bust will be given to that member of the Philolexian Society, who, in the opinion of the President of the University, the President of the Society, and a third man of their choosing, shall be deemed most worthy, upon his delivery of an original patriotic address. 1902

## PHŒNIX LEGACY:

Amounting at present to \$146,305.19, being one-third part of the residuary estate of the late Stephen Whitney Phoenix, bequeathed to Columbia College in 1881. 1902

## JULIUS BEER LECTURE FUND:

Legacy of the late Julius Beer of \$10,000 to establish this fund. 1903

## JAMES S. CARPENTIER FUND:

Gift of \$100,000 from General Horace W. Carpentier of the Class of 1848, in memory of his brother, James S. Carpentier, for the benefit of the Law School. 1903

## GUSTAV GOTTHEIL FELLOWSHIP FUND:

Gift of \$10,000 from Temple Emanu-El to establish a Fellowship, the holder to be nominated by the Professors in the Semitic Languages. 1903

## LOUBAT PROFESSORSHIP FUND:

Gift of \$100,000 from Joseph F. Loubat to establish the Loubat Professorship in American Archæology. 1903

## RICHARD BUTLER SCHOLARSHIP FUND:

Gift of \$5000 from Mrs. Richard Butler in memory of her deceased husband, Richard Butler, open to students born in the State of Ohio. 1903

## DARLING PRIZE FUND:

Bequest of the late Edward A. Darling, formerly Superintendent of Buildings and Grounds of \$1000 to endow an annual prize in the School of Engineering. 1903

**JOSEPH PULITZER FUND FOR SCHOOL OF JOURNALISM:**

Gift of \$1,000,000 from Joseph Pulitzer to establish and endow a School of Journalism in Columbia University. 1903

**CARPENTIER PROFESSORSHIP OF PEDIATRICS FUND:**

Gift of \$60,000 from General H. W. Carpentier towards a professorship in the Medical School, in memory of Reuben S. Carpentier. 1904

**CORNELIUS HEENEY GOTTSBERGER SCHOLARSHIP FUND:**

Bequest of Ellen Josephine Banker of \$9500 to establish a scholarship in memory of her deceased brother, Cornelius Heeney Gottsberger. 1904

**PHILOLEXIAN PRIZE FUND:**

Fund of \$1,326.80 from the Philoexian Society, the income to be paid to the Society for prizes. 1904

**TOPPAN PRIZE FUND:**

Gift of \$4000 from Mrs. Sarah M. Toppan to endow in memory of her late husband, Robert Noxon Toppan, a prize in the School of Law. 1904

## **PRIVILEGES IN OTHER INSTITUTIONS OPEN TO STUDENTS OF COLUMBIA UNIVERSITY**

### **American Museum of Natural History**

The American Museum of Natural History places its collection at the service of advanced students of Columbia University for the purposes of study and research, and provides them with the necessary facilities for work.

### **Metropolitan Museum of Art**

The Metropolitan Museum of Art admits students of Columbia University on presentation of cards of introduction, and gives them permission to draw, sketch, or copy objects in the Museum. Qualified applicants may obtain these cards from the Secretary of the University.

Objects may be removed temporarily from exhibition for the purpose of special study, and students are allowed to study these objects in rooms specified for the purpose.

### **Theological Seminaries**

The Union Theological Seminary and the General Theological Seminary admit, without tuition fee, such students of high standing in the senior year of Columbia College and in the graduate schools of the University as may be recommended by the President, to such lectures in their regular or special courses as may be mutually agreed upon. The privileges of the Libraries of the Seminaries, for reference, are open to all students of Columbia University on recommendation of

the President. Reciprocal advantages are offered by the University to students of the Seminaries.

The University enjoys similar reciprocal arrangements with the other theological seminaries in the vicinity of New York—the Jewish Theological Seminary (New York), Drew Theological Seminary (Madison, N. J.), and St. Joseph's Theological Seminary (Yonkers, N. Y.).

#### Botanical Garden

Columbia University has the right to conduct university courses in botany at the New York Botanical Garden and to use the laboratories and floral material of the same, and all courses of instruction given there are open to officers and students of the University without charge. For a description of the equipment of the Botanical Garden, see the statement of the Department of Botany in this volume.

#### Hospitals

Besides the Vanderbilt Clinic, the general and special hospitals of New York afford most important fields for clinical teaching. The College of Physicians and Surgeons is strongly represented on the staff of these institutions, and regular clinical instruction at hospitals is made a prominent feature of the curriculum. Admission is free to all matriculated students of the College of Physicians and Surgeons.

#### PUBLIC LECTURES

The University conducts annually a single course of public lectures by some eminent authority at the Cooper Union, and, beginning with the year 1904-05, will conduct similar courses in alternate years at the American Museum of Natural History and the Metropolitan Museum of Art. During the year many public lectures are also delivered at the University, several of the departments of instruction presenting courses each year. Information as to all public lectures under the auspices of the University will be furnished by the Secretary.

#### THE LIBRARY

JAMES H. CANFIELD.....	<i>Librarian</i>
CHARLES A. NELSON.....	<i>Head Reference Librarian and Editor of Library Publications</i>
EDWARD R. SMITH.....	<i>Reference Librarian, of the Avery Library</i>
WILLIAM C. ADAMS.....	<i>Reference Librarian of the Law Library</i>
VLADIMIR GR. SIMKHOVITCH.....	<i>Bibliographer</i>
MARGARET VAN ZANDT.....	<i>Supervisor, of the Order Department</i>
HARRIET B. PRESCOTT.....	<i>Supervisor, of the Catalogue Department</i>
FREDERIC W. ERB.....	<i>Supervisor, Loan Division of Readers' Department</i>
FRANK C. ERB.....	<i>Supervisor, of the Shelf Department</i>

The Library is open each week day (except Thanksgiving, Christmas, Good Friday, and Independence Day) from 8.30 A.M. until 11



P.M., October–June; and until 10 P.M., July–September. All officers, students, and graduates of the University have free access to the Library and may draw books for home use.

Officers of the New York University and of the College of the City of New York are granted the same Library privileges as are extended to graduates of Columbia University.

Persons of mature years desiring to engage in definite research which cannot be successfully conducted in the public or other libraries of this city will be given the privilege of using this Library in the building, upon filing a satisfactory application, responsibly endorsed. Blank applications will be furnished by the Librarian on request.

About 10,000 carefully selected reference books and the most important works on all subjects, in standard editions, representing the leading authors in all literatures, are placed in the general reading-room, directly accessible to all readers.

Connected with the stacks in which are stored the books relating especially to Philosophy, Education, Literature, Philology, the Sociological and Economic Sciences, Public Law, and History, are twenty special study rooms, open only to authorized readers: thus affording advanced students and investigators in these fields the fullest opportunity to carry on their work in quiet rooms in the immediate vicinity of the literature of the subjects under consideration.

The Library contains about 365,000 volumes; exclusive of unbound pamphlets and duplicates, and some 30,000 German dissertations.

Among the notable special collections may be mentioned the Columbian, 2000 titles; the Phoenix Library, consisting of 7000 volumes, the gift of Stephen Whitney Phoenix, of the Class of 1859; the Avery Architectural Library, a collection of about 17,000 volumes relating to architecture and decorative art; the Mary Queen of Scots Library, containing 550 volumes, collected and given by General J. Watts de Peyster; the collection of over 1200 volumes by and about Goethe; the Immanuel Kant collection of about 700 volumes; the valuable Townsend Library of National, State, and Individual War Records; the Garden Library, deposited by the Southern Society of New York; the large and valuable library of the Holland Society of New York, 600 volumes, including the remarkable collection of works of Grotius; and the Library of the American Mathematical Society, 1200 volumes. The Library is also the depository for the American Association for the Advancement of Science.

The entire Library is carefully and accurately catalogued both by authors and subjects. The catalogue is on cards accessible to readers.

### THE GYMNASIUM

GEORGE LOUIS MEYLAN, A.M., M.D.....	<i>Medical Director</i>
WILLIAM SKARSTROM, M.D.....	<i>Instructor</i>
JOHN A. DAVIS.....	<i>Assistant</i>



DUDLEY BILLINGS REID, A.B.....	<i>Assistant</i>
JOHN SLACK KEITH, A.B.....	<i>Assistant</i>
CHARLES HOLROYD.....	<i>Teacher of Swimming</i>
WILLIAM L. ESSEX.....	<i>Secretary</i>

The Gymnasium is open daily during the academic year, except on Sundays and legal holidays, from 9.30 A.M. to 7 P.M., Saturdays to 6 P.M. The Gymnasium is closed for the entire day only on Thanksgiving, Christmas, New Year's, and Good Friday. On all other holidays it is open from 2 to 6 P.M.

The main exercising room is semicircular in shape, and has an area of 16,000 square feet. The ceiling is 35 feet high, and the room is well lighted and well ventilated, both naturally and artificially. The running track is 11 feet wide, with ends raised, and measures 10 laps to the mile. On the same floor as the running track are the Gymnasium and Director's offices, rooms for fencing, boxing, and handball, two large dressing-rooms with 1804 steel lockers, and 32 shower-baths. Below the exercising room is the swimming pool, semicircular in shape; it measures 100 by 50 feet on its axes, and contains 200,000 gallons of water. The depth is from 4 to 10 feet. Around the pool are the dressing-rooms, and 20 shower-, needle-, and tub-baths. On this floor is also a large room and two dressing-rooms equipped with shower-baths and lavatories, for the use of the various athletic teams.

Every student, other than students of the College of Physicians and Surgeons, and the College of Pharmacy, must pay annually a Gymnasium fee of \$7.00. This covers the free use of the Gymnasium, a locker, and the baths. Officers, students in the College of Physicians and Surgeons, and alumni, may use the Gymnasium upon the same terms.

Two hours a week of work in the Gymnasium is prescribed for all members of the two lower classes in the College and the Schools of Applied Science, and Architecture, except special students, and students holding degrees from other colleges. A physical examination is required of each student in these classes upon entrance and at the end of the second year, and of all other students taking part in athletics.

The work prescribed for these classes is arranged with a view to securing three definite ends: First, health; secondly, organic vigor, control, efficiency, and endurance; third, erect carriage and correct position of the head, shoulders, and chest.

In the prescribed courses students are marked upon the basis of attendance, effort, and knowledge of the subjects taught, and a passing mark is necessary for a degree.

In addition to the class work, as much individual instruction and assistance as may be possible will be given to those who need special training for self-improvement.

Optional classes, open to every member of the University, are held every afternoon.

One or more of the instructors are on the floor at all times when the Gymnasium is open.

Every student is entitled to a physical examination by the Medical Director. On the basis of this examination advice is given as to the kind and amount of exercise best adapted to his needs.

The Medical Director has an office hour daily for consultation.

### STUDENT ORGANIZATIONS

The various student organizations, athletic and other, are self-governing, but all budgets for expenditures must be approved by the Comptroller of Student Organizations, an officer appointed by the President: and each organization is required to keep an accurate record of its financial operations in the office of the Director. The schedules of each athletic team, and all questions of eligibility for participation in athletic contests, are under the supervision of the Faculty Committee on Athletics. The President has also appointed a University Committee on Athletics, consisting of three graduates and two students, and empowered it to adopt and administer rules of eligibility, not involving questions of scholarship, and to govern the participation of students of Columbia University in intercollegiate athletics in accordance therewith. A pamphlet giving full information regarding the organization and administration of athletic sports at the University may be obtained from the Secretary of the University.

### UNIVERSITY COMMONS

A University Commons is maintained in the Alumni Dining Hall of University Hall for the convenience of officers and students. It is open daily except Sunday, from 8 A.M. to 7 P.M.

### RESIDENCE HALLS

#### For Men

Hartley Hall, a memorial to the late Marcellus Hartley, and Livingston Hall, University dormitories with accommodations for 500 men, are in course of erection on South Field, and will, it is hoped, be ready for occupancy in September, 1905. These buildings will be of stone and over-burned brick, harmonizing in style with the present buildings. The floors and partitions will be of re-enforced concrete construction. They are each to be 10 stories in height exclusive of basement, and 137 feet long by 60 feet wide. They will be lighted throughout by electricity and heated by steam, and there will be telephone connection on each floor. The electric current for the buildings will be brought from the main power plant of the University. There will be four electric passenger elevators, with freight compartments. Trunks and supplies will be brought in at the street

side of the connecting building, where an electric elevator will take them to the basement for storage or for distribution to the several elevators. In the basement will be a low-pressure heating plant, filters, coal storage, trunk storage, and lockers, for employees.

The two dormitories will contain 600 rooms, both single and double, all being outside rooms; their arrangement permits of flexibility in renting the rooms in suites. The average size of the bedrooms is about 8 feet by 14.6. The studies will average 10 by 14.6 feet. There will be a number of double rooms. All rooms are nine feet high. Each bedroom will have a clothes-closet and an enameled basin with hot and cold water, and will be provided with heavy oak furniture. There will be four shower-baths on each floor.

The only entrance to each building for students will be on the side facing the campus, and it will lead directly into an assembly room 60 feet square. This room runs up through two stories and has a large open fireplace opposite the entrance.

The charges for rooms have not yet been determined upon but it is expected that the average rent of a single room for the academic year will not exceed \$125.

While Hartley Hall and Livingstone Hall will be open to all male students of the University, students in Columbia College, in accordance with the desire of the donors, Mrs. Helen Hartley Jenkins and Mr. Marcellus Hartley Dodge, will be given the preference in the assignment of rooms in Hartley Hall should the number of applications exceed the capacity of the building.

Rooms will be assigned in the order of receipt of applications therefor. All such applications should be made in writing and addressed to the Superintendent of Buildings and Grounds.

### For Women

Whittier Hall, a dormitory building under the supervision of the authorities of Teachers College, is situated on Amsterdam Avenue, between 120th and 121st Streets, and has accommodations for 350 women. Inquiries regarding rooms, board, and the like, should be addressed to *The Secretary*, Whittier Hall, 1230 Amsterdam Avenue.

### OTHER LIVING ACCOMMODATIONS

Besides these dormitories, there are many good boarding-houses and apartments near the University. The careful selection, inspection, and registration of such lodgings etc., have been undertaken, and a card-catalogue of apartments, rooms, etc., is kept at Earl Hall. Preliminary correspondence, during the summer, concerning location and prices should be addressed to "Board and Room Directory, Earl Hall."

Groups of four or five students can arrange to live inexpensively by co-operating in the expenses of a furnished or unfurnished apartment.

The following memorandum will show the accommodations obtained by such a group of five men and their actual expenses for the academic year 1903-04.

*Accommodations.*—Rear apartment in a building (with steam heat and a passenger elevator), containing two large front rooms used as studies, two sleeping rooms large enough for two men each and one for one person. A kitchen furnished with gas range, cupboards, tubs, refrigerator, etc., and a bathroom of good size. The front rooms had unobstructed view and light and the others were lighted from wells open at the sides as well as from above.

<i>Expenses.</i> —Lease for one year at \$40 per month, minus the sum received by sub-letting in the summer . . . . .	\$370
Service, including washing of linen, etc., but not daily care of apartment (which the men attended to themselves) . . . . .	60
Furniture, initial cost . . . . .	150
Gas . . . . .	20
	<hr/>
	\$600
Expense per man . . . . .	120

### EARL HALL

Earl Hall, erected and equipped as a gift of a friend of the University, is entirely devoted to the religious, philanthropic, and social life of the University. On the ground floor are large and inviting rooms for the women students, a suite of living rooms for the Secretary of Earl Hall, a large room for Bible classes and other similar organizations, and a committee room. The first floor, reached by a fine approach through a heavily columned portico, contains a general reception and social room, the office of the Secretary, two class rooms or committee rooms, a small auditorium, and a large and well-equipped reading-room. On the second floor is a special reference library for students of mission work, a small social room, and the large auditorium. The Hall is open, without expense, to all students of the University, and its occupancy and work are under the general control of a Committee of Officers and Alumni, and under the direct management of the Secretary of Earl Hall, who is also Secretary of the University Young Men's Christian Association.

Mr. Gilbert A. Beaver is the Secretary, and the Committee is constituted as follows:

JAMES H. CANFIELD, *Chairman*,

T. LUDLOW CHRYSTIE,	WILLIAM G. LOW, Jr..
CLEVELAND H. DODGE,	V. EVERIT MACY,
MARCELLUS H. DODGE,	WM. FELLOWES MORGAN,
JAMES ALEXANDER EDWARDS,	WILLIAM H. SAGE,
THOMAS EWING, Jr.,	HERBERT L. SATTERLEE,
LAURA D. GILL,	Professor WM. M. SLOANE,
Rev. SHEPHERD KNAPP, Jr.,	ALEXANDER H. SMITH.



### MEDICAL VISITOR

For the benefit of those members of the University who are without family physicians in New York City the Trustees have designated a Medical Visitor of the University, whose duties are to render medical assistance to such officers and students as may desire it, either at their homes or elsewhere, at a remuneration to be arranged between himself and individual patients. The Medical Visitor is Dr. D. S. D. Jessup, whose office is at No. 410 West End Avenue (telephone 1753 Riverside). His office hours are from 5 to 6 P.M. daily, or by appointment at his office, and from 2 to 2:30 P.M. on Tuesdays, Thursdays, and Saturdays at the office of the Director of the Gymnasium, University Hall.

### PUBLIC WORSHIP AND RELIGIOUS WORK

A University Chapel, for which provision has been made through the generosity of anonymous donors, is now in course of erection, and will probably be completed before the beginning of the academic year 1905-06. It will be cruciform in shape, the greatest length being 122 feet and the width at the transepts 77 feet. In all nearly 1000 sittings will be provided, of which 120 are in the choir, which, in accordance with the practice in the English cathedrals, can itself be used for a religious service at which the attendance is small.

At present service is held every week day, except Saturday, in the auditorium of Earl Hall, at 9.10 A.M. The service lasts fifteen minutes, in which time there are singing, reading the Scriptures, prayers and an address by the Chaplain or some other officer of the University. Attendance is wholly voluntary. All officers and students of the University are invited to attend, and those who profess and call themselves Christians are expected to give support to the services by their occasional presence.

The Chaplain spends his morning hours in his office, where at stated times he is glad to welcome any student who may wish to confer with him.



## DEPARTMENTS OF INSTRUCTION

When an announced course has not been applied for by at least three students, candidates for a degree, the instructor shall be at liberty to withdraw the course.

The number of hours, unless otherwise specified, indicates the number of hours a week for the entire year.

Consult the index for any subject of study not appearing in its alphabetical order.

In addition to the following, Extension Courses are offered in a large number of subjects. For a summary of these see the Table of Contents, and for more detailed information consult the separately printed *Announcement of Extension Teaching*.

### Anatomy

GEORGE SUMNER HUNTINGTON, M.D., Sc.D.....	<i>Professor</i>
BERN BUDD GALLAUDET, M.D.....	<i>Demonstrator</i>
CHURCHILL CARMALT, M.D.....	<i>Assistant Demonstrator</i>
ARTHUR S. VOSBURGH, M.D.....	<i>Assistant Demonstrator</i>
HENRY E. HALE, M.D.....	<i>Assistant Demonstrator</i>
WILLIAM DARRACH, M.D.....	<i>Assistant Demonstrator</i>
E. A. SPITZKA, M.D.....	<i>Assistant Demonstrator</i>
H. VON W. SCHULTE, M.D.....	<i>Assistant Demonstrator</i>
C. R. L. PUTNAM, M.D.....	<i>Assistant Demonstrator</i>
ROLFE FLOYD, M.D.....	<i>Lecturer</i>

Courses 2, 3, 4, 5, and 10 are required in the first year of candidates for the degree of M.D. The five courses together may be elected by seniors in Columbia College.

Courses 1, 6, 7, 8, and 9 are required in the second year of candidates for the degree of M.D.

Course 11 may be offered as a major or minor for the degree of A.M. or Ph.D. according to special arrangement with the head of the department. It is optional for qualified candidates for the degree of M.D.

Courses 12-23 may be offered each as a minor for the degree of A.M. They are optional for candidates for the degree of M.D., and are open to post-graduate students in medicine.

Course 24 cannot be counted for a degree. It is open to teachers and qualified graduate students.

Course 25 is open to students of the first and second years.

None of the courses of the Department of Anatomy are open to women.

### Courses

1—Vertebrate morphology—Anatomy of the body cavities—Visceral and topographical course—Thorax and abdomen. Lectures combined with demonstrations. 3 hours. Professor HUNTINGTON

2—Demonstrations to sections of the class—Cranial osteology; syndesmolgy, myology, peripheral nervous system, and angeiology of the head and neck. 1 hour. Dr. SCHULTE

3—Demonstrations to sections of the class—Osteology, syndesmolgy, myology, peripheral nervous system, and angeiology of the extremities. 2 hours. Drs. CARMALT and VOSBURGH

These courses are so arranged as to maintain, with reference to the subjects treated, a direct connection with the laboratory course in dissection, 5.

5—Laboratory course—Dissection of the human body. 18 to 20 hours a week, at various hours, for from 3 to 5 periods of 4 weeks each. Professor HUNTINGTON, Dr. GALLAUDET, and the ASSISTANT DEMONSTRATORS OF ANATOMY

6—Laboratory course—Dissection of the human body. 10 to 12 hours a week for from 6 to 11 weeks. Professor HUNTINGTON, Dr. GALLAUDET, and the ASSISTANT DEMONSTRATORS OF ANATOMY

7—Demonstrations to sections of the class—Anatomy of the mouth, pharynx, and larynx—The auditory apparatus—The central nervous system. 3 hours. Dr. GALLAUDET

8—Demonstrations to sections of the class—Visceral anatomy. This course preserves an organic connection with Course 1, and presents for direct examination and demonstration the preparations serving to illustrate that course. 2 hours. Dr. DARRACH

9—Demonstrations to sections of the class—Anatomy of the cranial nerves. 1 hour for one half-year. Dr. SCHULTE

10—Course in mammalian morphology—Introductory to Physiology. 2 hours a week for one half-year. Professor HUNTINGTON and Dr. DARRACH

### Research

11—The laboratory of animal morphology is open for research, under the direction of the professor, to advanced workers. Professor HUNTINGTON

12—Comparative morphology of the carpus—A comparative study of the carpus in vertebrates above fishes, with especial reference to the homologies of the components, their evolution and significance, and their mutual relations in amphibia, reptiles, birds, and mammals. Professor HUNTINGTON and Dr. DARRACH

13—Comparative morphology of the respiratory apparatus in mammalia, sauropsida, and batrachia—Evolution of the composite mammalian lung from the air-sac—Morphology of mammalian bronchial tree—Construction of terminal branches and end spaces—Skeletal and other modifications of the respiratory apparatus in birds. Professor HUNTINGTON and Dr. DARRACH

14—Comparative morphology of the central nervous system—Demonstration and laboratory course—Detailed work in brain of cod, frog, turtle, bird, and mammal. Professor HUNTINGTON and Dr. DARRACH

15—Comparative myology. (a) Appendicular muscles. (b) Vento-appendicular muscles. (c) Muscles of the foot. Professor HUNTINGTON and Dr. DARRACH

16—Human and comparative morphology of the auditory apparatus. Professor HUNTINGTON and Dr. DARRACH

17—Comparative morphology of the upper respiratory passages nares, larynx, epiglottis, syrinx. Professor HUNTINGTON and Dr. DARRACH

18—Comparative morphology of the uro-genital system. Professor HUNTINGTON and Dr. DARRACH

19—Cranial topography. Professor HUNTINGTON and Dr. DARRACH  
This course is designed for advanced students possessing a knowledge of the gross morphology of the human brain.

Pre-requisite: Course 7 or its equivalent.

20—Comparative morphology of the heart and vascular system—Development and modification of the venous system in vertebrates. Professor HUNTINGTON and Dr. DARRACH

21—Comparative morphology of the alimentary tract and digestive glands—Anatomy of the peritoneum. Professor HUNTINGTON and Dr. DARRACH

22—Comparative morphology of the cæcum and ileo-colic junction in vertebrates—Detailed study of the modification of the structures and their vascular and serous relations. Professor HUNTINGTON and Dr. DARRACH

23—Topography of the pelvic viscera, muscles, and fasciæ. Professor HUNTINGTON and Dr. DARRACH

24—Anatomical technology and museum methods. Professor HUNTINGTON and Dr. DARRACH

25—Course of lectures on variation and heredity given at the beginning of the year. Dr. FLOYD

In all courses offered in morphology the work is designed to be laboratory exercises of at least two continuous hours' duration, at any one exercise, supplemented in certain courses by demonstration and study

of material contained in the Museum of Human and Comparative Anatomy and in the study collections of the department.

The time required for the above courses, if offered as minors for the degree of A.M. or Ph.D., or if taken as optionals, is half a day per week from October to April.

The demands on laboratory space and teaching force render it necessary to limit the number of candidates admitted to these courses.

A series of university lectures and demonstrations based on the material contained in the morphological museum is given annually.

These lectures are incorporated in Course 1 and deal with the comparative anatomy of the circulatory, respiratory, alimentary, and uro-genital systems of vertebrates, together with certain portions of the skeletons, as the pectoral and pelvic girdles. The lectures are open to students under the Faculty of Pure Science. Details of subjects and dates will be furnished on application to the department.

### Anatomical Laboratories

The laboratory facilities of the Department of Anatomy are very complete. The large general dissecting-room accommodates from 390 to 546 students at a time, working in groups of five or seven, respectively, at one table.

The plant for the production of artificial cold by the anhydrous-ammonia process has enabled the department, through the means offered for the indefinite preservation of fresh subjects by the cold-storage system, greatly to increase the amount of material available for laboratory work, and has also rendered it possible so to regulate the temperature of the general laboratory that the work can be carried on without difficulty during the warmer months at the beginning and close of the academic year.

The laboratory for advanced morphological research occupies the third story of the anatomical building. Every facility for advanced and research work in morphology is here extended. The established connections of the department furnish abundant human and comparative material, both mature and embryonal. The private library of the Professor of Anatomy is at the disposal of advanced workers.

### Museum of Human and Comparative Anatomy

Much work has been done in the formation of a Museum of Human and Comparative Anatomy, the ultimate design of which is to present, in as complete a manner as possible, a view of the evolution of the forms of animal life, and of their natural relations, both in series of natural groups, and in the comparative and relative position of organs and systems. Even the approximate attainment of this aim will require much time and work, but sufficient progress has been made to enable the department to offer great facilities for study and research. The collection, both as regards groups and the individual preparations, is



designed for the illustration of both elementary and advanced courses, and is largely used in the instruction of the medical undergraduates and in advanced study and research. The anatomical building provides the opportunity for the further development of this invaluable portion of the departmental equipment. The first and second stories of the building are devoted to the morphological museum, and it is hoped that in the space thus provided the continued development of scientific anatomy, both for purposes of undergraduate instruction and of advanced research, will steadily proceed.

In addition to the museum collection proper the department is constantly adding to a large collection for advanced study and research.

A study-collection of human osteological preparations is so administered as to enable every student to take out the different osteological series and retain them for private study as long as required.

### Anthropology

FRANZ BOAS, Ph.D.....	<i>Professor</i>
LIVINGSTON FARRAND, A.M., M.D.....	<i>Professor</i>
MARSHALL H. SAVILLE.....	<i>Loubat Professor of American Archaeology</i>
CLARK WISSLER, Ph.D.....	<i>Lecturer</i>
ADOLPH F. BANDELIER.....	<i>Lecturer</i>
BERTHOLD LAUFER, Ph.D.....	<i>Lecturer</i>

Courses 1 and 7 are open to juniors; and 2, 4, 5, and 8 are open to seniors in Columbia College and in Barnard College. All courses except 1 and 7 may be counted towards the degree of A.M. and Ph.D., and all except 3 are open to women and auditors.

### Courses

1—Anthropology, general introductory course—Lectures, essays, and discussions. 2 hours. Professor FARRAND

7—General ethnography—Lectures, essays, and discussions. 2 hours. Professors BOAS and FARRAND

8—Ethnography of Asia—Lectures, essays, and discussions. 2 hours. Professors BOAS, HIRTH, PRINCE and Dr. LAUFER

2—The statistical study of variation, introductory course—Lectures essays, and discussions. 2 hours lectures, 2 hours laboratory, first half-year. Professor BOAS and Dr. WISSLER

9—The statistical study of variation, advanced course—Lectures, essays, and discussions. 2 hours lectures, 2 hours laboratory, second half-year. Professor BOAS and Dr. WISSLER

3—Ethnology—Primitive culture—Lectures, papers, and discussions. 2 hours. Professor FARRAND

4—Physical anthropology—Lectures and laboratory work. 2 hours. Professor BOAS and Dr. WISSLER



5—American languages—Lectures and discussions. 2 hours. Professor BOAS

6—Anthropological research. Professors BOAS and FARRAND

10—Archæology of Mexico and Central America—Lectures and discussions. 2 hours. Professor SAVILLE

11—Early Spanish sources for American ethnography. 2 hours. Mr. BANDELIER

The collections and apparatus of the American Museum of Natural History may be used by students of Anthropology. An Anthropological Laboratory has been fitted up in the Museum in which practical work may be carried on by students. The extensive collection of crania and skeletons and the ethnological and archæological material in the Museum are utilized in connection with the lectures given in the department and are available for research work.

### Architecture

ALFRED D. F. HAMLIN, A.M....*Professor of the History of Architecture*

FRANK DEMPSTER SHERMAN, Ph.B.....*Professor of Graphics*

MAXIMILIAN K. KRESS, A.M.....*Adjunct Professor of Architecture*

GRENVILLE T. SNELLING, B.S....*Instructor in Architectural Engineering*

CHARLES A. HARRIMAN.....*Instructor in Architectural Drawing*

ALFRED H. GUMAER, B.S.....*Instructor in Architectural Design*

CHARLES P. WARREN, A.M.....*Tutor in Architectural Construction*

WILLIAM A. DELANO, A.B...*Tutor in Architectural Drawing and Design*

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WILLIAM R. WARE, LL.D.....*Emeritus Professor of Architecture*

For information as to the course of study leading to the degree of Bachelor of Science in Architecture see page 316.

More advanced courses both in design and in construction are offered to graduates of schools of science and schools of architecture, and professional draughtsmen of mature age are received as special students, not candidates for a degree, into such courses as they are qualified to pursue.

Courses 1, 2, 3, 4, 5, 6, 8, 10, 11, 13, 20, 21, 22, and 23 are open as electives to seniors in the College.

Courses 109, 114, and 121 may be counted toward the higher degrees.

*For a detailed description of the work in Architecture, consult the Fine Arts Announcement.*

### Courses

1—Ancient architectural history. 3 hours. Professor KRESS

2—Mediæval architectural history—Byzantine, Romanesque, Gothic. 2 hours, with reading of French and German text-books (see 7), and 13 hours original research in library and drawing-room during 6 weeks of

second half-year (see 9). Exercises in historical design (see 21). Professors HAMLIN and KRESS

[3—Modern architectural history—The Renaissance, modern revivals. Oriental and American architecture. 2 hours, with 13 hours research in library and drawing-room during 6 weeks of second half-year. Exercises in historical design. Professors HAMLIN and KRESS

*Not given in 1904-05]*

Courses 1, 2, and 3 are intended to be taken in successive years, in the order of their numbering

4—History of ancient ornament—The decorative forms of Egyptian, Assyrian, Greek, and Roman art. 1 hour, first year. Professor HAMLIN

5—History of mediæval ornament—Early Christian, Byzantine, and Gothic ornament. 1 hour. Professor HAMLIN

[6—History of modern ornament—Renaissance, Oriental, and modern ornament. 1 hour. Professor HAMLIN

*Not given in 1904-05]*

Courses 4, 5, and 6 are intended to be taken in successive years, in the order of their numbering

7—Archæology—(7.1) 2 hours, first year, in French. (7.2; for students having completed 7.1) 2 hours, reference work in French and German (see 2 and 3). Professor KRESS

8—Theory of architecture—(8.1) Elements of planning and composition, in connection with 21.2. 1 hour first half-year. Mr. GUMAER (8.2) Theory of design: planning and composition; scale; proportion, expression, and decoration. 1 hour, second half-year. (8.3) The decorative arts and theory of color. 1 hour. Professor HAMLIN (8.4) Theory of professional practice. 1 hour, first half-year, for advanced students. Professor HAMLIN

9—Architectural essays—4 to 6 essays in connection with historical research, second term, (see 2 and 3). Occasional written exercises in connection with lectures of Courses 1 to 6 inclusive. One essay and thesis dissertation preparatory to graduation. Professors HAMLIN and KRESS

10—Graphics—Projections, intersections, and shades and shadows. 2 hours lectures, 2 hours draughting-room, first half-year, for beginners. Professor SHERMAN

11—Perspective. 2 hours lectures, 2 hours practice, second half-year, for students having completed 10. Twelve plates required. Professor SHERMAN

12—Descriptive geometry. 2 hours, for students having completed 10. Twelve plates required. Professor SHERMAN

13—Specifications—(13.1) Masonry; woodwork; iron-work; plumbing; electric installation; heating, lighting, and ventilation. 2 hours

lectures, 1 hour practice. 6 hours in the draughting-room every other week. (13.2) Building materials—Growth and preservation of wood; paints, glass; metals, fire-proofing. 2 hours. (13.3) Advanced practice—The study of building processes. 2 hours, and 15 hours practice (for advanced students electing 14.6). Mr. WARREN

14—Mathematics and Engineering—(14.3) The integral calculus. (14.4) Analytical mechanics; statics, elementary dynamics. 3 hours, Professor SHERMAN. (14.5) Graphical statics; applied mechanics. 6 hours lectures, and 6 hours draughting-room every other week, for students having completed 14.3 and 14.4. Mr. SNELLING. (14.6) Advanced architectural engineering. 15 hours, for advanced students. Mr. SNELLING, in collaboration with Department of Civil Engineering

The mathematical subjects preparatory to course 14 are given in the Department of Mathematics as stated below.

20—The Elements of Architecture—Mouldings, the orders, intercolumniation and superposition, balustrades, arcades, doors, windows, roofs, spires, vaults, domes. 1 hour, first half-year. Mr. GUMAER

21—Architectural Design—(21.1) Elementary Design. 12½ hours, second half-year. (21.2, 21.3) 14½ hours first half-year and for 8 weeks of second half-year, for students having completed 21.1. (21.4) 25 hours, for students having completed 21.2 and 21.3. Problems in design; plans, elevations, sections, and details. Mr. GUMAER and Mr. DELANO (see 121)

In 21.1 the problems involve special drill in the use of the orders; in 21.2 and 21.3 special emphasis is given to planning and composition.

For advanced students, taking 21.4, problems of an advanced character alternate with sketch-designs or exercises in rapid invention and delineation; the greater part of the second term being devoted to the graduation thesis (see 25)

22—Architectural Drawing—Drawing and rendering of plans, elevations, sections, and details. 14½ hours, first half-year. Mr. HARRIMAN

23—Freehand Drawing—Sketching and drawing with pencil, charcoal, and brush; modelling; from 4 to 6 hours throughout four years. (21.1, 23.2, 23.3, 23.4). Professor HAMLIN, Mr. HARRIMAN, Mr. DELANO, and Mr. SMITH

24—Summer Work—Memoir, office drawings, and sketches, made during vacations. Three successive seasons' summer work required (24.1, 24.2, 24.3)

25—Thesis—A problem in advanced design or in original research, with written dissertation and drawings—25 hours; all except first six weeks of second half-year. Professor HAMLIN and Mr. DELANO

109—Post-Graduate Architectural Essays—Advanced research and criticism; written exercises and conferences. Professor HAMLIN and Mr. SNELLING

114—Post-Graduate Course in Architectural Engineering and Practice—32 hours. Mr. SNELLING and Mr. WARREN, in collaboration with Department of Civil Engineering

121—Post-Graduate Course in Architectural Design—30 hours. Four special problems, occupying two months each. Professor HAMLIN and Mr. DELANO

### Equipment

The equipment of the department consists of about 18,000 photographs, about 800 books, a classified library of prints and plates, the Avery Architectural Library of about 17,000 volumes, a collection of MS. drawings from the *École des Beaux-Arts*, a collection of casts of architectural details from ancient and modern Roman buildings, a collection of building-stones, tools, and materials, and about 9,000 lantern slides of architectural subjects. The Willard collection of architectural casts at the Metropolitan Museum is open to students every day and two evenings every week.

### Astronomy

JOHN KROM REES, E.M., Ph.D.<sup>1</sup> ..... *Rutherford Professor*  
 HAROLD JACOBY, Ph.D. .... *Professor, and acting head of Department*  
 CHARLES LANE POOR, Ph.D. .... *Professor*  
 S. ALFRED MITCHELL, Ph.D. .... *Tutor*

### Preliminary Statement

For a more detailed statement see *Announcement of the Division of Mathematical and Physical Science*

Courses 1, 2, 30, 31, are open to properly qualified seniors in Columbia College

Courses 1 and 2 are open to seniors in Barnard College; no courses at present are given separately at Barnard College

All courses may be counted towards the degree of Master of Arts or Doctor of Philosophy; all, except 30, 31, 32, 33, are open to graduate women students upon the same terms as to men. For details see the above-mentioned *Announcement*.

All courses are open to auditors.

The following courses, or their equivalents, are required as pre-requisites.

For Course 1, Physics 1 or 4, and Mathematics A; for Course 2, Astronomy 1, Physics 1 or 4, and Mathematics 3a; for Course 30, Physics 1 or 4, Mathematics 6, and Civil Engineering 15 and 16; for Course 31, Astronomy 30; for Course 32, Astronomy 31; for Course 33, Astronomy 32; for Courses 4, 5, 6, and 8, Astronomy 2 and Mathematics 6; for Course 7, Mathematics 6; for Course 9, Astronomy 8; for Course 10, Astronomy 1, and Mathematics 6.

<sup>1</sup> Absent on Leave



Courses 30, 31, are required of students in the Civil and Sanitary Engineering courses during the third year, 32 between the third and fourth years, 33 in the fourth year.

### Courses

1—General Astronomy—Historical and descriptive. 2 hours. Professor POOR

2—Spherical and practical astronomy—Mainly the study and use of the sextant for time and latitude determinations, and the transit instrument. 2 hours lectures and 2 hours observatory work. Professor JACOBY

30—Geodesy—Brief history of geodetic operations and description of instruments, including their adjustment and use. 2 hours first half-year. Dr. MITCHELL

31—Geodesy—Applications of practical astronomy to geodetic surveying. 2 hours second half-year. Dr. MITCHELL

32—Geodesy—Summer course in practical geodesy. Given in the field, each student making his own observations and calculations

Six weeks of practical work from June 1, at Osterville, Mass. Professor JACOBY and Dr. MITCHELL with assistants

33—Geodesy—Derivation of formulæ used in summer-course work, adjustment of observations, followed by several lectures on descriptive astronomy. 2 hours first half-year. Dr. MITCHELL

4—Advanced spherical and practical astronomy—Deals with the subjects of time, latitude, and longitude. 2 hours lectures and 4 hours observatory work for two years. Professor JACOBY

5—Theoretical astronomy—Theory of comet orbits with practical applications. 1 hour, supplemented by computation, for two years. Professor POOR

6—Theory and method of reduction of photographic star plates—Determination of star places. 1 hour, with practical work, for two years. Professor JACOBY

7—Method of least squares, with applications to astronomy and geodesy. 1 hour for one year. Professor JACOBY

8—Celestial mechanics—Elementary course. 1 hour for one year. Professor POOR

[9—Advanced course in celestial mechanics. 1 hour for one or two years

*Not given in 1904-05]*

10—Astronomical spectroscopy. 1 hour supplemented by laboratory work. Dr. MITCHELL

### Astronomical and Geodetic Equipment

The University has a very complete collection of instruments for the application of astronomy to geodesy, such as are employed in deter-



mining latitude and longitude at primary geodetic stations of the first importance.

1. A Bamberg universal combined prismatic transit and zenith telescope of 10-cm. aperture. It is one of the newest, and probably finest instruments of its class yet constructed. 2. A Wanschaff zenith telescope of 8-cm. aperture, suitable for latitude measures of the highest precision. 3. Three microscope theodolites. 4. A U. S. Coast Survey pattern secondary bar base apparatus. 5. A tape base apparatus. 6. Complete outfit of engineer's instruments, sextants, apparatus for barometric hypsometry, clocks, chronometers, chronographs, etc. 7. Five computing machines.

For the advanced study of astronomy proper, two Repsold measuring machines of the latest type are mounted for use, and the department has a large collection of original astronomical photographs made by Gill at the Cape of Good Hope, Rutherford at New York, Donner at Helsingfors, Henry at Paris, Campbell at Mt. Hamilton, etc. Ample funds are provided for the publication of researches in astronomical photography.

For research work in astrophysics (Course 10) students are limited to laboratory experiments, for which purpose they have access to the well-equipped laboratories of the Department of Physics.

In addition to the above, the University possesses a number of unmounted instruments; among them the late Lewis Morris Rutherford's famous 13-inch equatorial, with its attachments.

The Department of Astronomy has a good working library; and the University Library is especially strong in astronomy. Among other important collections, it contains the private library of Dr. Otto Struve, formerly director of the Pulkowa Observatory.

## Bacteriology and Hygiene

(See page 160)

### Botany

LUCIEN MARCUS UNDERWOOD, Ph.D.....	<i>Torrey Professor</i>
NATHANIEL LORD BRITTON, Ph.D., Sc.D.....	<i>Emeritus Professor</i>
FRANCIS ERNEST LLOYD, A.M.....	<i>Adjunct Professor in Teachers College</i>
HERBERT MAULE RICHARDS, Sc.D..	<i>Adjunct Professor in Barnard College</i>
CARLTON CLARENCE CURTIS, Ph.D.....	<i>Tutor</i>
ADA WATTERSON, A.M.....	<i>Tutor in Teachers College</i>
TRACY ELLIOT HAZEN, Ph.D.....	<i>Tutor in Barnard College</i>
IRA DETRICH CARDIFF, B.S .....	<i>Assistant</i>
ALICE ADELAIDE KNOX, A.B.....	<i>Assistant in Barnard College</i>

Certain graduate courses at the New York Botanical Garden are also given, either wholly or in part, by the following members of the Garden Staff:

DANIEL TREMBLY MACDOUGAL, Ph.D.....	<i>Assistant Director</i>
JOHN KUNKEL SMALL, Ph.D.....	<i>Curator of the Museums</i>

PER AXEL RYDBERG, Ph.D.....	<i>Assistant Curator</i>
ARTHUR HOLLICK, Ph.D.....	<i>Assistant Curator</i>
MARSHALL AVERY HOWE, Ph.D.....	<i>Assistant Curator</i>
WILLIAM ALPHONSO MURRILL, Ph.D.....	<i>Assistant Curator</i>
GEORGE VALENTINE NASH.....	<i>Curator of the Plantations</i>
HENRY HURD RUSBY, M.D.....	<i>Dean of the College of Pharmacy and Curator of Economic Collections</i>

Partial courses are also given by:

ELIZABETH GERTRUDE BRITTON

EDWARD SANDFORD BURGESS, Ph.D.

The undergraduate courses in Botany are arranged with the intention of giving a broad general knowledge of the subject during the first year, and permitting some degree of choice during the latter years; for those who continue the work as a graduate subject, the widest possible range of courses is open to the student's choice. Course 1 can be elected by any student who has reached the sophomore year, and if the subject be pursued consecutively for three years, the candidate will be ready to enter upon research work as a major subject. Two years would be sufficient for this preparation if the candidate elected two courses in Botany during the second year. Courses 1-4, or their equivalent, together with Course 5 or Course 7, according as the trend is toward morphology or physiology, form the necessary preparation for commencing a major subject in Botany. Course 1, with any two additional courses or an equivalent, will be required as the necessary preparation for commencing a minor subject in Botany. Minor graduate courses will be arranged after conference with the head of the department.

Courses 9-31 are research courses, primarily for graduate students; all are open to women. Each consists of field or laboratory work, or both, for not less than ten hours a week for one year. 14 and 15 require at least two years, including summer work in the field, and 12, 13, 27, 28, 29, three years each.

Courses 51-58 are given at Barnard College, and are primarily undergraduate courses for women.

Courses 9-11, 16-26, and 31 may be taken as major work for A.M.

Course 3 combined with Course 7, or a proportionate amount of work in Courses 9, 10, 16, 18, 19-25, may be taken as minor work for A.M.

Courses 12-15, 27-30 may be taken as major work for Ph.D.

Any two of the Courses 9, 10, 11, 16-25, 31, or a proportionate amount of work in Courses 12, 13, 14, 27, 28, 29, 30, may be taken as minor for Ph.D. In some cases the accomplishment of an approved piece of research may be offered as a minor for Ph.D.

Course 1 or its equivalent is pre-requisite for all succeeding courses, except Course 8.

Course 2 is pre-requisite for Courses 5, 9, 14, 21, 26, 30, 31.

Course 3 is pre-requisite for Courses 11, 12, 16, 17, 27, 28, 30.

Course 4 or its equivalent is pre-requisite for Courses 9 (if offered as a major for A.M.), 10, 14 (if subject chosen is a group of cryptogams), 18, 19, 20, 22, 23, 24, 25, 30.

Course 5 is a pre-requisite for Courses 9 (if offered as a major for A.M.), 11, 13, 18, 19, 20, 21, 30.

Course 7 is a pre-requisite for Courses 12, 16, 17, 27, 28, 30.

Course 8 is required of first-year students in Civil Engineering.

Graduate students preparing for the profession of teaching are expected to take Education 12 at some time during their course of study.

### Courses

1—Elementary botany—The general biological features of plants and the outlines of the evolution of plant types are considered; special attention being given to the significance of morphological characters and the forces operative in their development. 2 lectures and 4 hours laboratory work a week, counting as a 4-hour course. Dr. CURTIS

2—Comparative morphology of plants—Involving field work on adaptation of structure to physical conditions. 2 laboratory sessions a week, first half-year. Dr. CURTIS

3—Plant physiology—A course in experimental physiology supplemented by selected readings and conferences. 2 laboratory sessions a week, first half-year. Dr. CURTIS

NOTE.—In this and other courses in plant physiology the nature of the work occasionally requires attendance at the laboratory at unusual times.

4—General morphology of cryptogams—Detailed study of some group or groups of the lower plants. 2 laboratory sessions a week, second half-year. This course naturally follows Course 2, to complete an elective for the year. Mr. CARDIFF

5—Botanical problems—Illustrating advanced methods of fixing imbedding, sectioning, and staining. 2 laboratory sessions a week, second half-year. Dr. CURTIS

6—Economic botany—Study of plants useful to man as food, medicine, timber, and fibre. 2 hours lecture, or the equivalent in the laboratory. Professor UNDERWOOD

7—Plant physiology—A continuation of Course 3. 2 laboratory sessions a week, second half-year. Dr. CURTIS

8—Lectures on general botany—A brief review of plant structure and function, and the characters and relations of the leading groups of plants, with special attention to the study of timber trees and their identification. 1 lecture, assigned reading, field and laboratory work, first half-year. Professor UNDERWOOD and Mr. CARDIFF

9—Taxonomy of spermatophyta—Study of the principal families. Professor BRITTON, Dr. SMALL, Dr. RYDBERG

10—Morphology of fungi—Study of the structure, polymorphism, and development of the fungi, including culture methods. Dr. MURRILL

11—Experimental morphology—A study of the variation of form and structure, and the determination of the causes. Dr. MACDOUGAL, Professor LLOYD, Dr. CURTIS

12—General physiology—Problems in absorption, excretion, nutrition, and transformation of energy, growth, the general irritable organization of the plant, and the mechanism of its movements. Laboratory. Dr. CURTIS, Dr. MACDOUGAL, Professor RICHARDS

13—Embryology of spermatophyta—Comparative embryology of special groups. Special embryological problems. Technique. Professor LLOYD

14—Special taxonomy—Critical study of a family or genus of plants of not less than fifty species. The group may be chosen from the entire range of the plant world. Field, herbarium, laboratory, and garden work. Directed, according to the group chosen, by Professor UNDERWOOD, Professor BRITTON, Dr. SMALL, Dr. RYDBERG, Dr. HOWE, Dr. MURRILL, Mr. NASH, Professor BURGESS

15—Regional botany—Collection, determination, and comparative study of the plants of some restricted area. Professor UNDERWOOD, Professor BRITTON. This course requires a previous experience of not less than three years in botany

16—Physiology of the cell—Problems in the chemical and the physical properties, movements, and irritability of unicellular and other generalized organisms. Dr. MACDOUGAL

17—Plant geography—Occurrence, characters, and arrangement of groups and formations. Relations of plant societies to one another, and to topographic, climatic, and other conditions. Factors governing distribution. Professor BRITTON, Dr. MACDOUGAL, Professor LLOYD, Dr. CURTIS

18—Morphology of algæ—Study of the structure and development of algæ. Dr. HOWE, Professor RICHARDS, Dr. HAZEN

19—Morphology of bryophyta—Study of the structure and development of the musci and hepaticæ. Professor UNDERWOOD, Dr. HOWE, Mrs. BRITTON

20—Morphology of pteridophyta—Study of the structure and development of the ferns and fern-allies. Professor UNDERWOOD

21—Morphology of spermatophyta—Study of the structure and development of the flowering plants. Professor LLOYD, Dr. CURTIS, Dr. RYDBERG



22—Taxonomy of algæ—Study of the diagnostic characters and relationships of the principal families and genera. Dr. HOWE, Dr. HAZEN

23—Taxonomy of fungi. Professor UNDERWOOD, Dr. MURRILL

24—Taxonomy of bryophyta. Professor UNDERWOOD, Dr. HOWE, Mrs. BRITTON

25—Taxonomy of pteridophyta. Professor UNDERWOOD

26—Taxonomy of gramineæ. Mr. NASH

27—Physiology of nutrition—Treated from a chemical standpoint. Professor RICHARDS

28—Ecological physiology—Problems in adaptive reactions in form, structure, and movements to external energy and environmental factors. Dr. MACDOUGAL, Dr. CURTIS

29—Physiological anatomy—Problems in the relationships of tissues and functions. Dr. CURTIS

30—Mycological pathology—Study of diseases caused by parasitic fungi, with special attention to the morphology of the pathological organism. Also problems in immunity, and effects of unfavorable environment. Dr. MURRILL

31—Developmental taxonomy—Fossil ancestors of some family of plants. Comparative study of form and structure. Dr. HOLLICK

51—Elementary botany. 3 hours. Professor RICHARDS

52—General morphology and development of plants. 4 hours. Dr. HAZEN

53—Morphology and ecology of spermatophytes. 2 hours. Dr. HAZEN

54—Anatomy of vascular plants. 2½ hours, first half-year. Professor RICHARDS

55a—Physiology of plants from standpoint of nutrition. 2½ hours, alternate second half-years. Professor RICHARDS

55b—Physiology of plants from standpoint of growth. 2½ hours, alternate second half-years. Professor RICHARDS

56—Structure and development of algæ. 2 hours, one half-year. Professor RICHARDS

57—Structure and development of fungi. Advanced course. 2 hours, one half-year. Professor RICHARDS

58—Developmental anatomy—Practice in methods of technique. 2 hours, one half-year. Professor RICHARDS and Dr. HAZEN

59—Advanced physiology and morphology. Hours to be arranged. Professor RICHARDS and Dr. HAZEN



### Equipment

The Department of Botany occupies the third floor of Schermerhorn, and the laboratories and lecture-rooms are thoroughly equipped for undergraduate work. A large general laboratory, lecture-room, and morphological and physiological laboratories are supplied with modern instruments for instruction and experiment. A sufficient number of standard botanical works and serials on the subject are reserved for students' use in the general laboratory.

Graduate courses are conducted at the Museum of the New York Botanical Garden. By the agreement entered into between the University and the Garden, all the botanical collections and library of the University (except such works as are needed in the undergraduate courses) have been deposited in the Museum of the Botanical Garden at Bronx Park; the Garden on its part supplies all needed facilities for research for members of the staff and for properly accredited students. This combination of forces not only places the Department of Botany within reach of material equipment and collections not otherwise available, but opens up facilities for research work under conditions that are not excelled.

The Museum of the New York Botanical Garden is located in Bronx Park, and its entire upper floor is devoted to research. The physiological and morphological laboratories occupy the western end, and the taxonomic laboratories and herbarium the eastern end. The present floor space is more than 19,000 square feet. Among the special features provided are to be mentioned the dark rooms, photographic, operating, and balance room, laboratory for physiological chemistry, constant-temperature chambers, and sky-lighted apartment for living plants which is furnished with a suitable aquarium. Ample opportunity for experimental work is afforded by the open-air plantations and extensive horticultural houses.

The Columbia herbarium and the equally extensive collections of the New York Botanical Garden are housed in the large room in the east wing of the Botanical Museum. The cryptogamic collections are arranged in special rooms. The entire aggregation of collections available for students is exceptionally full in every group of plants, from slime moulds to composites.

The portion of the University Library classified under Botany is deposited in the library stack-room of the Museum building, where it can be consulted in connection with the extensive supplementary collection now owned by the New York Botanical Garden. There are about 5000 bound volumes and 4000 pamphlets and extracts; the Garden library supplements this by over 10,000 volumes. All the regularly published journals devoted to Botany proper (over one hundred) are received, and the sets of all are complete.

Two series of publications are issued from the department: a quarto series known as the *Memoirs of the Department of Botany*, of which two volumes have been published; and the *Contributions from the Department of Botany*, in octavo, which have commenced the ninth volume.

## Chemistry

CHARLES F. CHANDLER, M.D., Ph.D., LL.D., D.Sc. . . . *Mitchell Professor of Chemistry*

JOHN FRANCIS WOODHULL, A.B., Ph.D. . . . *Professor of Physical Science (Teachers College)*

CHARLES E. PELLEW, E.M. . . . . *Adjunct Professor of Chemistry*

EDMUND H. MILLER, Ph.D. . . . . *Professor of Analytical Chemistry*

MARSTON TAYLOR BOGERT, A.B., Ph.B. *Professor of Organic Chemistry*

J. LIVINGSTON RUTGERS MORGAN, Ph.D. . . . . *Adjunct Professor of Physical Chemistry*

MARGARET E. MALTBY, Ph.D. . . . . *Adjunct Professor of Physics (Physical Chemistry) (Barnard)*

JAMES S. C. WELLS, Ph.D. . . . *Instructor in Analytical Chemistry (Qual.)*

HERMANN T. VULTÉ, Ph.D. . . . . *Adjunct Professor of Domestic Science (Teachers College)*

HENRY C. SHERMAN, Ph.D. . . . . *Instructor in Analytical Chemistry*

MARIE REIMER, Ph.D. . . . . *Instructor in Chemistry (Barnard)*

LOUIS H. LAUDY, Ph.D. . . . . *Tutor in Chemistry*

SAMUEL A. TUCKER, Ph.B. . . . . *Tutor in Industrial Chemistry*

CAVALIER HARGRAVE JOÛET, Ph.D. . . . . *Tutor in Analytical Chemistry*

VICTOR J. CHAMBERS, Ph.D. . . . . *Tutor in Organic Chemistry*

EVERETT J. HALL. . . . . *Tutor in Analytical Chemistry and Assaying*

ARTHUR C. NEISH, Ph.D. . . . . *Tutor in Chemistry*

CHARLES H. ELLARD, A.M. . . . . *Tutor in Analytical Chemistry (Qual.)*

HAL T. BEANS, Ph.D. . . . . *Tutor in Analytical Chemistry (Qual.)*

ELEANOR KELLER, A.B. . . . . *Tutor in Chemistry (Barnard)*

MAY BELLE VAN ARSDALE. . . . *Assistant in Physical Science (Teachers College)*

WILLIAM C. UHLIG, Ph.D. . . . *Assistant in Analytical Chemistry (Qual.)*

HENRY A. JACKSON, A.M. . . . . *Assistant in Physical Chemistry*

FREDERICK VAN DYKE CRUSER, B.S. . . . . *Assistant in Analytical Chemistry (Quant.)*

FLOYD J. METZGER, Ph.D. . . . . *Assistant in Chemistry*

MILTON J. FALK, B.S. . . . . *Assistant in Analytical Chemistry (Quant.)*

*For the officers in the Department of Physiological Chemistry and in the College of Pharmacy, see Table of Contents.*

*For all detailed information in regard to the courses, subjects discussed, pre-requisites, etc., refer to the special Announcement of the Division of Chemistry.*

Courses 4, 17, 18, 19, 21, 26, 28, 38, are open as minors for A.M.

Courses 4, 9, 13, 15, 16, 21, 22, 36, 38, are open as majors for A.M.

Courses 4, 13, 14, 15, 16, 17, 18, 22, 28, 38, are open as minors for Ph.D.

Courses 5, 14, 15, 23, 29, 36, and Physiological Chemistry 2, 3, 4, 5, 6, are open as majors for Ph.D.

All courses except 5, 13, 14, 15, 16, 18, 22, 23, 25, 28, 29, 33, 35, 36, are open to properly qualified students of Columbia College.

## Courses

6—General elementary chemistry. 2 lectures, 1 recitation, and 2 afternoons laboratory practice, one half-year. Given both half-years. Dr. NEISH

1—General inorganic chemistry. 3 lectures and 1 recitation. Professor CHANDLER, Dr. LAUDY, Mr. TUCKER, Dr. NEISH, and Dr. METZGER

10—Advanced inorganic chemistry. 2 lectures. Professor PELLEW

3—Elementary physical chemistry. 3 hours a week in lectures and recitations, and 4 hours a week in the laboratory. Professor MORGAN and Mr. JACKSON

4—Physical chemistry. 3 hours a week in lectures and recitations throughout the year, and 1 afternoon a week in the laboratory, first half-year. Professor MORGAN and Mr. JACKSON

37—Theoretical electrochemistry—A course of two lectures a week throughout the first half-year. Professor MORGAN

5—Physical chemistry, advanced course. 2 lectures, and at least 12 hours a week in the laboratory. Professor MORGAN

7—Qualitative analysis. 2 lectures or conferences a week during the first half-year, 3 lectures or conferences for chemists during second half-year, 2 lectures or conferences for other courses, and laboratory practice. Dr. WELLS, Mr. ELLARD, Dr. BEANS, and Dr. UHLIG

9—Quantitative analysis for chemists. 4 hours lectures and recitations a week, and 15 hours laboratory practice. Professor MILLER and Dr. JOÛET

11—Quantitative analysis, inorganic, short course for electric engineers. 2 hours lectures and recitations a week, and 6 hours laboratory practice during the first half-year. Professor MILLER, Dr. JOÛET, and Mr. FALK

12—Quantitative analysis, inorganic, for mining engineers. 3 lectures and recitations a week during the second half-year, with laboratory practice, 18 hours a week in the second half-year. Professor MILLER, Dr. JOÛET, Dr. SHERMAN, and Mr. FALK

13—Quantitative analysis—Proximate organic and sanitary analysis for chemists. 2 lectures, 2 recitations, and laboratory practice 18 hours a week, first half-year. Dr. SHERMAN

14—Advanced inorganic analysis. 2 lectures a week. Laboratory practice 3 afternoons during the first half-year for students taking the course in Metallurgy, and 6 afternoons the second half-year for students in the course of Analytical Chemistry, who elect this course in place of Course 15. Professor MILLER

15—Advanced proximate organic analysis for chemists. 2 lectures a week. Laboratory practice during the second half-year, 6 after-

noons for students in the course of Analytical Chemistry, who elect this course in place of Course 14. Dr. SHERMAN

19—Quantitative analysis, short course. 9 hours, conferences and laboratory work. Professor MILLER and Mr. FALK

16—Quantitative analysis—Special methods, gravimetric, volumetric, and electrolytic. Conferences and laboratory work at least 16 hours a week. Professor MILLER

17—Assaying—Ores and metallurgical products. 2 lectures or recitations, and laboratory practice 10 hours a week during the first half-year for mining engineers and metallurgists; during the second half-year for chemists. Professor MILLER and Mr. HALL

18—Special methods of assaying ores, alloys, and furnace products—Comparison of methods and determination of losses. Conferences and laboratory work at least 8 hours a week for one half-year. Professor MILLER and Mr. HALL

20—Organic chemistry, elementary lecture course. 2 lectures a week. Dr. CHAMBERS

30—Organic chemistry, elementary laboratory course. 8 hours a week. Dr. CHAMBERS

21—Organic chemistry. Comprehensive treatment of the subject—4 lectures and 1 recitation. Laboratory work for analytical or industrial options, 12 hours, first half-year; for organic option, 9 hours first half-year and 18 hours second half-year. Professor BOGERT and Dr. CHAMBERS

36—Organic chemistry. Conferences. 2 hours a week. Professor BOGERT

22—Advanced organic chemistry, laboratory course. 12 hours per week. Professor BOGERT

23—Advanced organic chemistry, research. Professor BOGERT

24—Industrial chemistry, general course—3 lectures a week. Professor CHANDLER, Dr. LAUDY, and Dr. METZGER

25—Industrial chemistry, special course for chemists. 3 lectures for two years, one half the subject being discussed each year. Professor CHANDLER, Dr. LAUDY, and Dr. METZGER

26—Industrial chemistry, laboratory practice for chemists. 2 afternoons a week during the second half-year. Mr. TUCKER

27—Industrial chemistry, laboratory practice for chemists. Special applications. 2 afternoons a week during the first half-year. Professor PELLEW

28—Industrial chemistry, laboratory practice for chemists. Special applications. 5 afternoons a week during the second half-year. Mr. TUCKER

29—Industrial chemistry, advanced course for higher degrees



Original research. Personal instruction and laboratory work for one year. Professor PELLEW and Mr. TUCKER

39—Practical electrochemistry, laboratory course. 1 afternoon for part of second term. Mr. TUCKER

34—Chemical microscopy. 2 hours laboratory practice a week. Professor PELLEW

### Courses Given at Barnard College

The following courses are given separately at Barnard College: 1, by Miss REIMER and Miss KELLER; 4, by Professor MALTBY; 7, by Miss KELLER; 19, by Miss REIMER; 20, by Miss REIMER; 30, by Miss REIMER; 38, an advanced course in Organic Chemistry open as a minor for A.M. and Ph.D., by Miss REIMER.

### Other Courses

For courses in Chemistry given at Teachers College and for courses in Chemistry and Physiological Chemistry given at the College of Physicians and Surgeons and at the College of Pharmacy, see the Table of Contents and the special announcements of these Schools.

### Equipment

#### *Havemeyer Hall*

In Havemeyer Hall the Chemical Department is provided with ample space for its museum, lecture-rooms, and laboratories, and every convenience has been provided for both the instructors and students working in the general or special courses.

There are five chemical lecture-rooms, all fully supplied with apparatus and instruments, the desks being equipped with pneumatic troughs, gas, pressure, exhaust, and electricity. The large chemical lecture-room on the ground floor contains 316 seats.

The museum of General Inorganic and Organic Chemistry and of the Chemical Arts, a large room occupying the whole left wing of the ground floor, contains the elements and all their more important compounds, inorganic and organic; materials and products illustrating the chemical arts, and numerous models, pictures, and diagrams.

The Qualitative Laboratory has one hundred and eighteen desks, each divided into two sections, and each thoroughly equipped.

The Quantitative Laboratory has eighty-eight desks. Attached to the main laboratory is a large and well-equipped balance room, containing accurate balances, and special rooms, provided with the latest and most improved apparatus for gas, water, food, and electrolytic analysis.

The Organic Laboratory has forty large desks. The laboratory is provided with high- and low-pressure steam, and with special rooms for balances, pressure ovens, glass-blowing, combustions, and for advanced work in various directions, including the determination of boiling-points, melting-points, specific gravities, vapor densities, and the synthetic preparation of organic compounds.



The Laboratory of Industrial Chemistry for the instruction of students in practical operations and the solution of problems in sanitary chemistry and hygiene is equipped for the manufacture of pure chemicals from their raw materials on an industrial scale, with fine batteries of steam evaporators, and with steam stills, centrifugals, filter presses, crushers, and the like. It includes a dyeing laboratory with a large stock of dye-stuffs, and with the regular equipment for the practical testing of dyes, including a calico-printing machine. Connected with it is a photometer room, containing a new and complete outfit for the practical testing of illuminants. Practical instruction is given in this laboratory in the filtration and purification of water and sewage, fermentation and distillation, the use of the electric furnace, and the manufacture of sugar, petroleum products, and leather.

A laboratory has been fitted up for the study of electrochemistry provided with an electric furnace and other appliances.

The Laboratory of Physical Chemistry is well equipped with the most recent apparatus adapted to a wide range of experimental work in the branches of heat, light, and electricity as applied to chemical problems.

The Assay Laboratory is provided with crucible and muffle furnaces, both gas and coal, for the fire assay of ores; also with crushing, pulverizing, and sampling machinery, balance room, storeroom, and thirty-six well-equipped working desks. It also contains all the apparatus necessary for the wet assay of silver bullion and for laboratory tests of ores.

The Chemical Library in Havemeyer Hall is supplied with an extensive collection of chemical books and journals, and is open from 9.00 A.M. to 5.00 P.M., and during the session of the University from 8.00 to 11.00 P.M.

#### *Barnard College*

The Department of Chemistry at Barnard College has laboratories well equipped with hoods and every facility for the proper study of the subjects offered. The desks have water, gas, and electricity.

There is a small library of useful reference books in chemistry to which the students have free access during the entire day.

#### *Teachers College*

The laboratories and lecture-room of Teachers College are well equipped for illustrating the teaching of chemistry in Secondary and Normal Schools. In these the chemistry classes of the Horace Mann School receive their instruction, and by observation and practical work in connection with the classes the students in Education 92 are enabled to become familiar with the duties of a teacher of Chemistry.

#### **Chinese**

(See Oriental Languages)

### Civil Engineering

WILLIAM HUBERT BURR, C.E.....	Professor
EARL BRINK LOVELL, C.E.....	Adjunct Professor
ADOLPH BLACK, C.E. ....	Instructor
MYRON SAMUEL FALK, C.E., Ph.D.....	Instructor
WILLIAM HENRY YATES, C.E.....	Tutor
WALTER TAUBERT DERLETH, C.E., A.M. ....	Assistant
JULES AUGUSTE COELOS, C.E.....	Assistant

*A complete, detailed statement of all the subjects covered by the course of study leading to the degree of Civil Engineer, both those given in the Department of Civil Engineering and in other departments of the University, will be found in the Announcement of the Courses in Civil Engineering, which will be supplied, without cost, on application to the Secretary of the University.*

### Courses

1—Surveying—2 hours, second half, first year. Professor LOVELL and Mr. DERLETH

2—Road engineering—2 hours, first half, second year. Mr. YATES

3—Water supply and irrigation—2 hours, second half, fourth year. Mr. BLACK

4—Masonry structures—2 hours, third year. Professor LOVELL and Mr. YATES

5—Resistance of materials—3 hours, first half, third year; 2 hours, second half, third year. Professor BURR, Dr. FALK, Mr. YATES, and Mr. DERLETH

6—Graphic statics—2 hours, second half, third year. Mr. YATES

6a—Graphic statics for mining engineers—1 hour, second half, third year. Mr. YATES

7—Theory of trusses—2 hours, first half, third year. Mr. YATES

8—Sanitary treatment of water supplies and sewage—2 hours, first half, third year. Mr. BLACK

9—Railroad engineering—3 hours, fourth year. Professor LOVELL

10—Design of bridges and buildings—2 hours, fourth year. Professor BURR and Dr. FALK

11—Foundations—2 hours, first half of fourth year. Professor BURR and Dr. FALK

12—Hydraulics—3 hours, first half of fourth year. Mr. BLACK

12b—Theory of mechanism—1 hour, first half, fourth year. Mr. YATES

13—Sewers and harbors—2 hours, second half of fourth year. Mr. BLACK

**14**—Theory of railroad surveying—3 hours, third year. Professor LOVELL

**14a**—Theory of railroad surveying—for mining engineers. 1 hour, first half, second year. Professor LOVELL

### The Summer Courses in Surveying

These courses are conducted during sixteen weeks each summer vacation at a point in the country near Litchfield, Conn., where ample facilities are provided for all requisite operations, and where the topography is admirably adapted to the practical work of surveying. The operations at the summer school include the entire actual surveying of the Department of Civil Engineering, together with such lectures, computations, and mapping as pertain to it. About six weeks' continuous attendance is required of each class between the first and second, and the second and third years, and four weeks between the third and fourth years. The school possesses an unusually full equipment of engineers' and solar transits, levels, plane tables, compasses, and all accessories and smaller instruments. A corps of special assistants for each session aid the regular officers of the school. At each session the following courses are given:

**15**—Surveying between the first and second years—Pacing, chaining, and ranging—Farm survey—Adjustment of instruments—Angle reading by repetition—Repetition traverse—Azimuth traverse. Daily lectures, field and office work. Professor LOVELL, Mr. YATES, and Assistants

**16**—Surveying between the second and third years—Levelling—Topographical survey with plane table—City surveys—Mine surveying above ground—Use of solar attachment. Daily lectures, field and office work. Professor LOVELL, Mr. YATES, and Assistants

**16a**—Hydrographic surveying — Triangulation — Topography on shore—Soundings—Current meter work—Computation of river or tidal discharge — Preparation of map. Professor LOVELL and Mr. YATES

**17**—Surveying between the third and fourth years—Railroad surveying—Reconnaissance—Preliminary survey—Location—Cross-sectioning—Computations—A complete survey and location of a line two to five miles long are made, with all the attendant computations requisite for placing the work under contract. Daily lectures, field and office work. Professor LOVELL

Graduation Thesis—A satisfactory project or thesis is required of every candidate for the degree of Civil Engineer at graduation.

### Courses in Sanitary Engineering

**18**—Sanitary engineering of buildings—2 hours, first half, second year. Mr. BLACK

19—General principles of hygiene and sanitary science—2 hours, second half, second year. Mr. BLACK

20—Heating and ventilation—2 hours, fourth year. Dr. FALK

21—Drainage of country districts and towns—2 hours, second half, fourth year. Mr. BLACK

### University Courses

The minor subjects in the Department of Civil Engineering for the university degrees of Master of Arts and Doctor of Philosophy are the following:

5—Elasticity and resistance of materials.

22—Foundations, including theory of earth pressure (Civil Engineering 11 with additional reading).

23—Hydraulics (Civil Engineering 12 with additional reading).

24—Long-span bridges. Conferences, with reading and design work, as required.

Pre-requisite: Course 10.

25—Elastic and masonry arches. Conferences, with reading and design work, as required.

Pre-requisite: Course 4.

The major subjects for the same university degrees are the following:

26—Sanitary engineering.

27—Hydraulic engineering, including the hydraulics of rivers and power plants and municipal water-works.

28—Municipal engineering, including water-works, sewers and sewage works, streets and other public works and their administration.

29—The engineering of structures, including long-span bridges and deep foundations, with methods of building them, and advanced work in elasticity and resistance of materials.

### Equipment

The department possesses an unusually full equipment of engineers and solar transits, levels, plane tables, compasses, and all accessories, as well as smaller instruments. Current meters, hook gauges, and floats of various types are also used in making observations on the flow in and discharge of rivers and canals. A complete set of sections of iron and steel shapes, models and photographs of engineering works, together with working plans of the latter, are in the department for the use of students. The hydraulic laboratory affords opportunity for the practical operations of measuring the discharge through weirs and other orifices, the flow through open channels and closed pipes, frictional and other resistances in pipes and open channels, as well as for meter gaugings, and for general hydraulic investigations. The testing work in the mechanical laboratory includes the complete tests of various structural



materials in tension, compression, bending, and torsion, including the observation and digesting of all corresponding data.

A cement-testing laboratory is fully equipped with testing machines, briquette moulds, tanks, and other apparatus requisite for all classes of investigations in the nature and physical properties of cements and cement mortars. All students are required to make and test briquettes of cement and cement mortar as well as to ascertain the weight, fineness, and other physical properties of such cement, sand, and mortar as may be assigned to them for examination.

Students taking the course of Civil Engineering enjoy the use of the laboratories in all of the departments of the University in which they pursue courses of study, and their laboratory work in those departments is identical with that of students taking courses of engineering study in the same departments.

The workshops used by the students in Civil Engineering are located in the Macy Manual Arts Building of Teachers College. The other laboratories used by students in the Department of Civil Engineering, and in which extended courses of work are given, are those of the Departments of Physics, Mechanical Engineering, and Electrical Engineering. Complete descriptions of these laboratories will be found in the circulars of their respective departments.

In addition to the actual equipment of the school, a great variety of large engineering works is continually in process of construction in New York City and vicinity, and the requisite steps are always taken to render them accessible to the students of the department for examination and study.

The library facilities consist of an extensive collection of foreign and domestic engineering books and periodicals, to which additions are being constantly made. The collection of engineering literature forms a part of the general Library of the University, and is constantly available for both undergraduate and post-graduate study.

## Clinical Instruction

*in Dermatology, Genito-Urinary Diseases, Laryngology, Ophthalmology, Orthopedic Surgery, and Otology. For Clinical Instruction in Medicine, Surgery, Gynecology, Neurology, and Pediatrics details will be found under the general heading of these departments.*

GEORGE HENRY FOX, A.M., M.D.....	Professor of Dermatology
VIRGIL P. GIBNEY, M.D., LL.D.....	Professor of Orthopedic Surgery
WM. K. SIMPSON, M.D., M.Sc. ....	Professor of Laryngology
JAMES R. HAYDEN, M.D.....	Professor of Genito-Urinary Diseases
ARNOLD KNAPP, M.D.....	Professor of Ophthalmology
GORHAM BACON, M.D.....	Professor of Otology
ROYAL WHITMAN, M.D....	Chief of Clinic and Instructor in Orthopedic Surgery



JAMES R. WHITING, M.D.	Chief of Clinic and Instructor in Genito-Urinary Diseases
ROBERT LEWIS, JR., M.D.	Chief of Clinic and Instructor in Otology
FRANKLIN M. STEPHENS, M.D.	Instructor in Otology
GEORGE SLOAN DIXON, M.D.	Instructor in Otology
GEORGE THOMAS JACKSON, M.D.	Chief of Clinic and Instructor in Dermatology
RICHARD FROTHINGHAM, M.D.	Instructor in Laryngology
WARD A. HOLDEN, M.D.	Chief of Clinic and Instructor in Ophthalmology
HENRY H. TYSON, M.D.	Instructor in Ophthalmology
SAMUEL W. THURBER, M.D.	Chief of Clinic and Instructor in Laryngology

### Clinical Assistants

#### *In Orthopedic Surgery*

CHARLTON WALLACE, M.D.	DANIEL B. BRINSMADE, M.D.
CHARLES H. JAEGER, M.D.	NEWTON B. WALLER, M.D.
SHIRLEY E. SPRAGUE, M.D.	CARL R. KEPPLER, M.D.
ARTHUR H. CILLEY, M.D.	

#### *In Otology*

FRANKLIN M. STEPHENS, M.D.	FRANK J. BLODGETT, M.D.
GEORGE SLOAN DIXON, M.D.	MATHEW L. CARR, M.D.
ALFRED MICHAELIS, M.D.	

#### *In Dermatology*

JOHN H. P. HODGSON, M.D.	CHARLES T. DADE, M.D.
JOHN ALDRICH, M.D.	S. DANA HUBBARD, M.D.

#### *In Ophthalmology*

JOHN A. JACKSON, M.D.	D. H. LEVY, M.D.
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#### *In Laryngology*

ARTHUR P. COLL, M.D.	F. CONGER SMITH, M.D.
JOHN J. MCCOY, M.D.	C. D. VAN WAGENEN, M.D.
JOHN LESHURE, M.D.	F. A. SCHNEIDER, M.D.

#### *In Genito-Urinary Diseases*

WALTER B. BROUNER, M.D.	W. S. REYNOLDS, M.D.
S. W. FOWLER, M.D.	

The following courses are required of candidates for the degree of M.D.:

In the third year, Genito-Urinary Diseases 1, 2, 3; Ophthalmology 1, 2; Otology 1, 2.

In the fourth year, Dermatology 1, 2; Laryngology 1, 2, 3; Orthopedic Surgery 1, 2.

The following is optional:

In the fourth year, Orthopedic Surgery 3.

*Full information regarding these courses and the equipment of the University for this work will be found in the Announcement of the College of Physicians and Surgeons for 1904-05. All communications regarding them should be addressed to the Secretary of the Faculty of Medicine, 437 W. 59th Street.*

## Courses

### In Dermatology

1—Clinical lectures at the Vanderbilt Clinic upon the diseases of the skin. 1 hour. Monday, 2 P.M. First half of the year. Professor FOX

2—Practical instruction at the Vanderbilt Clinic in the diagnosis and treatment of the diseases of the skin. 10 lessons for each student. Dr. JACKSON

### In Genito-Urinary Diseases

1—Genito-urinary diseases—Clinical lectures at the Vanderbilt Clinic. 3 P.M., Monday. 1 hour, throughout the academic year. Professor HAYDEN

2—Practical instruction at the Vanderbilt Clinic in the diagnosis and treatment of genito-urinary diseases—10 lessons for each student. Dr. WHITING

3—Hospital clinics in genito-urinary diseases—Bellevue Hospital, Tu. at 3.30 P.M. throughout the academic year. Professor HAYDEN

### In Laryngology

Instruction in the Department of Laryngology (including diseases of the larynx, pharynx, and nasal passages) is both didactic and clinical. It comprises:

1—A systematic course of didactic lectures, which for convenience in teaching and economy of time is given to the fourth-year students collectively in the amphitheatre of the Vanderbilt Clinic.

1 hour. M. at 2 P.M., second half of the year. Professor SIMPSON

2—Practical clinical instruction in the Laryngological Hall of the Vanderbilt Clinic to sections of the class in the use of the laryngoscope, rhinoscope, and tongue spatula, and in the laryngoscopic and posterior rhinoscopic examination of both normal and pathological cases, all under the direct and personal supervision of the Instructor. Dr. THURBER

3—Individual clinical demonstrations, at which, during his course of "section" teaching, each student has demonstrated to him, by the Instructor, a certain number of pathological cases, special attention being given to the questions of general diagnosis, differential and bacteriological diagnosis, and treatment. Dr. FROTHINGHAM

### In Ophthalmology

1—Clinical lectures, at the Vanderbilt Clinic, upon the diseases of the eye. In selected cases the diagnosis is made, treatment applied, and minor operations are performed before the class.

Before and after the lectures, as opportunity offers, microscopic demonstrations of the pathological histology of the eye are made by Dr. HOLDEN. 1 hour, Tu. at 2 P.M. Professor KNAPP

2—Practical instruction, at the Vanderbilt Clinic. 10 lessons for each student. Drs. HOLDEN and TYSON

### In Orthopedic Surgery

1—Clinic in orthopedic surgery and diseases of the joints at the Vanderbilt Clinic. 1 hour a week. F. at 12. Professor GIBNEY

2—Practical instruction. 10 lessons for each student, at the Hospital for Ruptured and Crippled. Dr. WHITMAN

3—Operations at the Hospital for Ruptured and Crippled. Tu. at 8.30 A.M. Professor GIBNEY

### In Otology

1—Didactic lectures with lantern demonstration on diseases of the ear. 1 hour, Th. 2 P.M., first half of the year. Professor BACON

2—Practical instruction in the diagnosis of the diseases of the ear at the Vanderbilt Clinic. 10-12 lessons for each student. Drs. LEWIS, STEPHENS, and DIXON

## Comparative Literature

JEFFERSON BUTLER FLETCHER, A.M. . . . . *Professor*  
JOEL ELIAS SPINGARN, Ph.D. . . . . *Adjunct Professor*

All the courses given below are open to graduate students only, both men and women, and may all be counted towards the higher degrees. Any two of the five courses offered are pre-requisite for admission to the Seminars.

Courses 1, 2, 6, 7, and 11 may be offered as a full minor, and Seminars A, B, and C as a partial minor or major for Ph.D.

### Courses

[1—The comparative study of literature: its methods and its history. 2 hours. Professor FLETCHER

*Not given in 1904-05]*

2—History of literary criticism in modern Europe. 3 hours. Professor SPINGARN

6—European literature in the full Renaissance. 3 hours. Professor FLETCHER

7—The literary relations of England and the Continent in the time of the Tudors. 2 hours. Professor FLETCHER

11—European literature during the later Renaissance and the Catholic reaction. 3 hours. Professor SPINGARN

Seminar A—The mediæval and modern pastoral. 2 hours. Professor FLETCHER

Seminar B—Classicism in modern literature. 2 hours. Professor SPINGARN

Seminar C—The tradition of chivalry in modern literature. 2 hours. Professor SPINGARN

### Equipment

The officers of the department have given much attention to the requirements of their courses in the matter of learned publications, the books of specialists in literary topics, the particular collections grouped about great authors, and the rarer literature of the world of letters. The general subject of literary history and criticism and the latest phases of literary scholarship are well represented in the Library, and those subjects with which the courses directly deal are represented with unusual fulness. A special effort has been made to gather beforehand the literature of subjects for research, so that there may be no delay in providing such material. In the last few years several thousand volumes have been purchased by the department with a particular view to the needs of students, and it is believed that, within the limits of study, the collections are ample; and whatever books prove to be required will be at once obtained. Substantially all periodicals of the literary or learned world are currently received, and in files of such publications, transactions of societies, and the like the Library is uncommonly rich, as well as in foreign dissertations. These are the treasures of information for minute research. In the Library a special study room is provided for the department, in immediate communication with the books relating to its specific subject.

### Diseases of Children

(See Pediatrics)

### Domestic Art

Eight courses in Domestic Art are offered under the auspices of Teachers College. For details see the *Announcement of Teachers College* and the special circular of the Department, which will be sent, without charge, upon application to the Secretary of the University.

### Domestic Science

Nine courses in Domestic Science are offered under the auspices of Teachers College. For details see the *Announcement of Teachers College* and the special circular of the Department, which will be sent, without charge, upon application to the Secretary of the University.



### Economics and Social Science

EDWIN R. A. SELIGMAN, Ph.D., LL.D.....	<i>McVickar Professor</i>
FRANKLIN HENRY GIDDINGS, Ph.D., LL.D.....	<i>Professor</i>
JOHN BATES CLARK, Ph.D., LL.D.....	<i>Professor</i>
HENRY ROGERS SEAGER, Ph.D.....	<i>Adjunct Professor</i>
HENRY LUDWELL MOORE, Ph.D.....	<i>Adjunct Professor</i>
ALVIN SAUNDERS JOHNSON, Ph.D.....	<i>Instructor</i>
GEORGE J. BAYLES, Ph.D.....	<i>Lecturer in Ecclesiology</i>
ELSIE CLEWS PARSONS, Ph.D.....	<i>Lecturer (Barnard College)</i>

*For more detailed statement of the scope of each course see the Announcement of the Faculty of Political Science (Division of History, Economics, and Public Law).*

The courses offered fall into two divisions: Political Economy and Finance, and Sociology and Statistics. Economics A and 1 are the general introductory courses primarily intended for juniors in Columbia and Barnard Colleges. Economics 3 to 8 and 11 to 13 will be found of especial value to law students seeking to supplement their purely legal studies. Sociology 15 is a general introductory course. Sociology 16 is a special course at Barnard College, on the evolution of family institutions. Sociology 15 to 24, together with Economics 6, 8, 11, and 12, will be of value to students of theology who wish to extend their knowledge of the social problems of the day.

In addition to the regular courses, there are several seminars, organized to furnish students opportunity for special investigation and original research. Every candidate for the degree of Master of Arts or Doctor of Philosophy, taking his major subject in this department, must work in at least one of the seminars.

The allied courses in history and public law will be found extremely useful for the students of social science, because of the close interrelations of history, law, and economics. Taken together, these courses constitute a complete scheme of political science.

Economics A is required of juniors in Columbia and Barnard Colleges, and open to sophomores who have taken Economics 1. Economics 1 is open to juniors and qualified sophomores. Economics 2, 3, 4, 6, 11, 12, and 13 and Sociology 15 and 16 are open to seniors and other candidates for the degree of Bachelor of Arts. The remaining courses are intended for university students. Courses corresponding to Economics A, 1, 2, 3, 6, 11, and 12 and Sociology 15 are given separately at Barnard College, and by the same instructors unless otherwise noted. Sociology 16 is given only at Barnard.

Economics 5, 7, 8, 9, 10, 13, 14 and Sociology 17, 18, 19, 20, 21, 22, 24, and 30 are open to graduate women students upon the same terms as to men.

Economics 2, 3, 4, 6, 11, 12 and Sociology 15 may be counted toward the degree of Master of Arts or Doctor of Philosophy only



when such additional work is taken in connection with them as may be prescribed by the instructor in charge.

All the courses are open to male auditors. Women holding the first degree may register as auditors in Economics 5, 7, 8, 9, 10, 14, and Sociology 17, 18, 19, 20, 21, 22, 24, and 30.

### Courses in Political Economy and Finance

A—Outlines of economics—Recitations, lectures, and essays. 3 hours, second half-year. Professors SELIGMAN and SEAGER and Dr. JOHNSON

Given at Barnard the first half-year by Professor MOORE and Dr. JOHNSON.

1—Economic history of England and America—Selected text-books, recitations, essays, and lectures. 3 hours, first half-year. Professor SELIGMAN and Dr. JOHNSON

Given at Barnard the second half-year by Professor MOORE and Dr. JOHNSON.

2—Economic readings—Reading, discussions, lectures, and essays. 2 hours. Professors SEAGER and MOORE

Given at Barnard by Professor MOORE under the name of:

2b.—Economic theory.

2c.—English social reformers.

3—Money and Banking—Lectures, discussions, and reading. 2 hours, second half-year. Professor MOORE

4—Science of finance—Lectures and private reading. 2 hours. Professor SELIGMAN

Courses 3 and 4 are combined at Barnard under the name of Practical Economics, and are given as a 2-hour course during the second half-year by Professor SEAGER.

[5—Fiscal and industrial history of the United States—Lectures and private reading. 2 hours, first half-year. Professor SELIGMAN  
*Not given in 1904-05*]

6—The labor problem—Lectures and private reading. 2 hours, first half-year. Professor SEAGER

[7—Railroad problems, economic, social, and legal—Lectures and private reading. 2 hours, second half-year. Professor SELIGMAN  
*Not given in 1904-05*]

8—History of economics—Lectures, discussions, and readings. 2 hours. Professor SELIGMAN

9—Economic theory I—The static laws of distribution—Lectures and private reading. 2 hours, first half-year. Professor CLARK

10—Economic theory II—The dynamic laws of distribution—Lectures and private reading. 2 hours, second half-year. Professor CLARK

11—Communitistic and socialistic theories—Lectures and private reading. 2 hours, first half-year. Professor CLARK

12—Theories of social reform—Lectures and private reading. 2 hours, second half-year. Professor CLARK

13—Commerce and commercial policy—Lectures and private reading. 2 hours, second half-year. Dr. JOHNSON

31—Problems of industrial organization—Lectures and private reading. 2 hours, second half-year. Professor SEAGER

14—Seminar in political economy and finance. 2 hours. Professors SELIGMAN and CLARK

### Courses in Sociology and Statistics

15—Principles of sociology—Recitations, lectures, and collateral reading. 2 hours. Professor GIDDINGS

16—Family organization—Lectures and house-to-house observation. Bi-weekly, 1 hour. Dr. ELSIE CLEWS PARSONS  
At Barnard College only.

17—Theory of statistics—Lectures and laboratory. 2 hours, first half-year. Professor H. L. MOORE

18—Social statistics—Lectures and laboratory. 2 hours, second half-year. Professor GIDDINGS

[19—Economic statistics—Lectures and laboratory. 2 hours, second half-year. Professor SEAGER

*Not given in 1904-05]*

20—Social evolution, ethnic and civil origins—Lectures and private reading. 2 hours, first half-year. Professor GIDDINGS

21—Social evolution—Civilization, progress, and democracy—Lectures and private reading. 2 hours, second half-year. Professor GIDDINGS

22a—Pauperism, poor laws, and charities—Lectures and private reading. 2 hours, first half-year. Professor SEAGER

22b—Crime and penology—Lectures as in 22a and private reading with Professor GIDDINGS

24—Civil aspects of ecclesiastical organization—Lectures and private reading. 1 hour. Dr. BAYLES

30—Seminar in sociology—2 hours, bi-weekly. Professor GIDDINGS

### Equipment

The Library facilities are unexcelled. Every journal of importance, American or foreign, dealing with economics or social science, is taken regularly by the Library. Any book needed by advanced students can usually be bought at once. The special library of history and political science alone comprises more than seventy thousand volumes.

Students of economics and social science will find New York to be a centre of library facilities unrivalled elsewhere in this country. In

addition to the University Library, there are rich treasures at the New York Public Library on the Astor, Lenox, and Tilden foundation, New York Historical Library, Long Island Historical Library, Library of the Charity Organization Society, the Bar Association Library, and the Law Institute Library, to each of which students have access under favorable conditions. Advanced students also have at their disposal the library of the McVickar Professor of Political Economy, which contains the most complete collection of works on economics to be found in the United States.

The facilities offered to students of sociology include a large library of general and special works, and unusual opportunities for field work. A generous gift for works on sociology has provided a very complete equipment of publications on sociological theory, the history of the family, pauperism, crime, and penology. Arrangements have been made with the Charity Organization Society, the State Charities Aid Association, the University Settlement, the East-Side House, and the Brooklyn Bureau of Charities by which students can become fully acquainted with actual work among the people and with the most perfect methods.

The Statistical Laboratory, conducted by Professors GIDDINGS and MOORE, is equipped with the Hollerith tabulating machines, computers, and all other modern facilities.

### Education

Teachers College is the Department of Education of Columbia University. In the section of the Catalogue devoted to Teachers College (see Table of Contents) will be found a list of its officers and a statement of its equipment for instruction and research in education.

The following courses are open to students of Columbia College and Barnard College, and to University students. All courses are open to men and women on equal terms.

1. Courses in the several departments open to all undergraduate students are designated by the numbers 1-9 inclusive.

2. Courses open to juniors and seniors only are designated by the numbers 10-49 inclusive. All courses in this group must be preceded or paralleled by Psychology A and Education 10.

3. Courses open to seniors and graduates only are designated by the numbers 50-99 inclusive. All courses in this group must be preceded or paralleled by Psychology A, Education 10, and Education 50, none of which may be counted toward the higher degrees. Courses 52-99 inclusive may be counted toward the higher degrees as minor subjects, or, when combined with a practicum in the same field, as major subjects. Education 50 G and 51, together, may be counted as a minor by students whose major is not in Education.

4. Courses open to graduate students only are designated by the number 100 and above.

*A full statement of the nature of each course, the work pre-requisite to it, and the credit which may be received for it in partial fulfilment of the requirements for the several degrees and diplomas, will be found in the current edition of the Announcement of Teachers College, which may be had, without charge, upon application to the Secretary of Teachers College.*

### History and Philosophy of Education

11—Logic as applied to education—Lectures, readings, and discussions. 2 hours, second half-year. Professor DEWEY

50—History and principles of education—Lectures, required readings, reports, and discussions. 3 hours. Professor MONROE and assistant

50G—History and principles of education—Special graduate section of the course described above. 2 hours. Professor MONROE

50a—History of education to modern times—First third of Education 50, described above. 1 hour. Professor MONROE

50c—Principles of education—Last third of Education 50, described above. 1 hour. Professor MACVANNEL

51—Contemporary educational problems—Lectures and discussions. 1 hour. Dean RUSSELL and Professor MONROE, in coöperation with President BUTLER and special lecturers

52—Modern educational theory—Lectures, reading, and discussion. 2 hours. Professor MACVANNEL

100—Practicum—Sources in the history of education. 2 hours. Professor MONROE

101—Seminar—History of education. Professor MONROE

102—Practicum—Philosophy of education. Lectures, reports, and discussions. 2 hours. Professor MACVANNEL

103—Seminar—Philosophy of education. Professor MACVANNEL

### Educational Administration

54—School administration—Lectures, essays, and discussions. 2 hours. Professor DUTTON

104—Practicum—Administration of public education in the United States. 2 hours. Professor DUTTON

105—Seminar—Educational administration. Dean RUSSELL and Professor DUTTON

106—Practicum—Foreign school systems. 2 hours. Dean RUSSELL

### Educational Psychology

A—Elements of psychology. First half-year. }

10—Educational psychology. Second half-year. }

Lectures, practical exercises, and recitations. 3 hours. Professor THORNDIKE and Dr. NORSWORTHY



12—Child study—Observation, experiments, private reading, and conferences. 2 hours. Dr. NORSWORTHY

59—Genetic psychology—Advanced course. 2 hours. Professor THORNDIKE

108—Practicum—The application of psychological and statistical methods to education. 2 hours. Professor THORNDIKE

109—Seminar—Genetic and comparative psychology. Professor THORNDIKE

### Elementary Education

15—General method and practice teaching—Observation, conferences, and practical work. 3 hours. Mr. SUZZALLO in coöperation with Professor McMURRY

16—Primary and kindergarten teaching—Lectures, observation, and practical work. 2 hours, first half-year. Miss O'GRADY and Professor McMURRY

55—Supervision, critic work, and experimental teaching. 3 hours. Mr. SUZZALLO in coöperation with Professor McMURRY

114—Practicum—The curriculum of the elementary school. 2 hours. Mr. SUZZALLO in coöperation with Professor McMURRY

115—Seminar—Problems in the theory and practice of elementary teaching. Professor McMURRY

14—Religious education—Lectures, discussions, reports, observation, and practice. 1 hour. Dr. HODGE

62—Theory and practice of teaching domestic art—Lectures, conferences, and practical work. 3 hours. Professor WOOLMAN

63—Domestic art—Supervision and critic teaching in domestic art. Conferences and practical work. 2 hours. Professor WOOLMAN

64—Theory and practice of teaching domestic science—Lectures, conferences, and practical work. 2 hours. Professor KINNE

26—Theory and practice of teaching English in elementary schools—Lectures, recitations, and private reading. 2 hours. Professor BAKER

68—Theory and practice of teaching art—Lectures, conferences, observation, and practical work. 3 hours. Professor Dow and Miss CORNELL

70—Theory and practice of teaching French—The same as French 17. 2 hours. Professor COHN

32—Theory and practice of teaching geography in elementary schools—Lectures, discussions, and practical work. 2 hours. Professor DODGE and Miss KIRCHWEY

32a—First half of Education 32. 1 hour. Professor DODGE and Miss KIRCHWEY



38—Theory and practice of teaching history in elementary schools—Lectures, conferences, reference and practical work. 2 hours. Professor CASTLE

38a—First half of Education 38. 1 hour. Professor CASTLE

16—Primary and kindergarten methods—Observation, discussions, written reports and lectures. 2 hours, first half-year. Miss O'GRADY

80—Theory and practice of kindergarten teaching—Lectures, discussions, and practical work. Lectures, 1 hour, Miss FISHER. Discussions and practical work, 5 hours, Miss O'GRADY and assistants

81—Kindergarten supervision and critic teaching. 2 hours. Lectures, 1 hour. Miss BLOW, Miss O'GRADY, and special lecturers

84—Theory and practice of teaching manual training—Discussions, collateral reading, observation, and practical work. 3 hours. Professor RICHARDS

85—Organization of manual training—Discussions, essays, and investigation. 2 hours. Professor RICHARDS

46—Theory and practice of teaching mathematics in elementary schools—Lectures, discussions, and practical work. 2 hours. Professor SMITH

88—Theory and practice of teaching school music—Lectures and practical work. 3 hours. Professor FARNSWORTH

20—Theory and practice of teaching nature study in elementary schools—Lectures, discussions, and practical work. 3 hours. Professor BIGELOW, in coöperation with Professors LLOYD, WOODHULL, and DODGE

### Secondary Education

57—Secondary education—Lectures, discussions, and reports. 2 hours. Professor SACHS

116—Practicum—The secondary-school curriculum. 2 hours. Professor SACHS

117—Seminar in secondary education. Professor SACHS

60—Theory and practice of teaching biology in the secondary school.—Lectures, discussions, and practical work. 3 hours. Professors LLOYD and BIGELOW

120—Practicum in botany and zoölogy. A critical study of the materials and methods employed in the teaching of botany and zoölogy. 2 hours. Professors LLOYD and BIGELOW

62—Theory and practice of teaching domestic art—Lectures, conferences, and practical work. 3 hours. Professor WOOLMAN

63—Supervision and critic teaching in domestic art—Conferences and practical work. 2 hours. Professor WOOLMAN

64—Theory and practice of teaching domestic science—Lectures,

conferences, and practical work. 2 hours. Professor KINNE and Miss WHITTEMORE

124—Supervision and critic teaching in domestic science—Conferences and practical work. 2 hours. Professor KINNE

66—Theory and practice of teaching English in secondary schools—Lectures, reading, written work, observation, and practice-teaching. 3 hours. Professor BAKER

126—Practicum in English—The history of the criticism of the college entrance classics. 2 hours. Professor BAKER

68—Theory and practice of teaching art—Lectures, conferences, observation, and practical work. 3 hours. Professor DOW and Miss CORNELL

70—Theory and practice of teaching French—The same as French 17. 2 hours. Professor COHN

72—Theory and practice of teaching geography in secondary schools—Lectures, discussions, and practical work. 3 hours. Professor DODGE and Miss KIRCHWEY

132—Practicum in geography. 2 hours. Professor DODGE

74—Theory and practice of teaching German in secondary schools—Lectures, discussions, reports, and practical work. 3 hours. Professor BAGSTER-COLLINS

76—Theory and practice of teaching Greek in secondary schools—Lectures, reports, and practical work. 3 hours. Professor LODGE

136—Practicum in Greek—Xenophon and Homer. 2 hours. Professor LODGE

78—Theory and practice of teaching history in secondary schools—Lectures, discussions, and practical work. 3 hours. Professor CASTLE

138—Practicum in history. 2 hours. Professor CASTLE

82—Theory and practice of teaching Latin in secondary schools—Lectures, reports, and practical work. 3 hours. Professor LODGE

142—Practicum in Latin—Cæsar and Vergil. 2 hours. Professor LODGE

84—Theory and practice of teaching manual training—Discussions, collateral reading, observation, and practical work. 3 hours. Professor RICHARDS

85—Organization of manual training—Discussions, essays, and investigation. 2 hours. Professor RICHARDS

145—Seminar in manual training. Professor RICHARDS

86—Theory and practice of teaching mathematics in secondary schools—Lectures, discussions, and practical work. 3 hours. Professor SMITH

146—Practicum in the history and teaching of mathematics. 2 hours. Professor SMITH

88—Theory and practice of teaching music—Lectures and practical work. 3 hours. Professor FARNSWORTH

90—Theory and practice of physical education—Lectures, readings, reports, and practical work. 3 hours. Dr. SKARSTROM and assistants

92—Theory and practice of teaching physical science in secondary schools—Lectures, laboratory exercises, observation, and practical work. 3 hours. Professor WOODHULL and Miss VAN ARSDALE

152—Practicum in physical science. 2 hours. Professor WOODHULL

### Electrical Engineering

FRANCIS B. CROCKER, E.M., Ph.D. .... Professor

GEORGE FRANCIS SEVER. .... Adjunct Professor

FITZHUGH TOWNSEND, A.B., E.E. .... Tutor

MORTON ARENDT, E.E. .... Lecturer

SALISBURY M. DAY, E.E. .... Assistant

LEONARD J. LEWINSON, E.E. .... Assistant

*For full information as to the scope of the work in Electrical Engineering, text-books, etc., students are referred to the Announcement of the Course in Electrical Engineering, which may be obtained from the Secretary of the University.*

*This pamphlet contains a detailed statement of the requirements for the degree of Electrical Engineer, for students either with or without previous collegiate or technical training.*

The theoretical side of Electrical Engineering is treated in lectures delivered by Professor PUPIN and Dr. WILLS of the Department of Mechanics, under which head the various courses will be found. (See Mechanics 6-9, 14-17.)

Courses 37 and 9 are required of second-year students in Electrical, Mechanical, Mining, and Civil Engineering, and Chemistry, and are open to seniors of the College.

Courses 1, 4, 10, and 29 are required of third-year students in Electrical Engineering; 1, 4, and 27 of third-year students in Mechanical Engineering; and 3 of third-year students in Chemistry (all courses).

Courses 5 and 105 are required of third-year students in Mining, Civil and Sanitary Engineering, Metallurgy, and of fourth-year students in Chemistry (Course I).

Courses 2, 3, 6, 8, 11, 12, 22, 23, 25, and 26 are required of fourth-year students in Electrical Engineering; and 2, 8, 23, and 28 of fourth-year students in Mechanical Engineering.

Course 24 counts as major for Ph.D.

### Courses

1—Dynamo and motor practice—Principles, construction, operation, and testing of dynamos and electric motors. 2 hours, first half-year. Professor SEVER

2—Electric power—Transmission and distribution of electric power, including the principles, construction, and applications of the various types of direct-current, single-phase, and polyphase motors. 2 hours, first half-year. Professor CROCKER and Mr. ARENDT

3—Electrochemistry—Including electrometallurgy; the theory and applications of electrolysis and electrical heating; theory and practice of primary and secondary batteries; production, separation, and purification of chemicals and metals. 1 hour. Professor CROCKER and Mr. ARENDT

4—Electrical Plants—The design, installation, and operation of electrical generating stations and plants, including a discussion of each of the various elements and methods employed. 2 hours, second half-year. Professor CROCKER and Mr. ARENDT

5—Electrical engineering—The principles of electrical engineering and their application to general engineering. 1 hour lecture, second half-year. Professor CROCKER and Mr. ARENDT

6—Telegraph and telephone. 2 hours, second half-year. Professor CROCKER and Mr. ARENDT

8—Electric railway—The design, installation, and operation of the various systems of electric railways. 2 hours, second half-year. Professor SEVER

9—Elements of the Dynamo—The principles and general construction of dynamo-electric machinery. 1 hour, second half-year. Professor CROCKER and Mr. ARENDT

10—Direct-current laboratory—Practice in the use of instruments and in the operation and testing of direct-current dynamos and motors. 2 afternoons. Professor SEVER and Assistants

11—Alternating-current laboratory—Practice in the use of instruments and in the operation and testing of alternating-current generators, motors, and transformers. 2 afternoons. Mr. TOWNSEND

12—Electrical-instrument laboratory. Advanced electrical measurements of inductance, capacity, magnetism, etc. Storage-battery testing, photometry of electric lamps. 3 afternoons, first half-year. Mr. TOWNSEND and Assistants

15—Design of direct-current machinery. Complete and original design with all calculations and working drawings of a specially assigned electric generator or motor. 2 hours conference and 1 afternoon in drawing-room, second half-year. Professor SEVER

22—Management of electrical plants—Economy in design, construction, operation, organization and administration. 2 hours, second half-year. Professor CROCKER and Mr. ARENDT

23—Electrical distribution—Principles and methods; series, parallel, and multiple wire systems; regulation of voltage and current; transformers; interior wiring; meters; arc and incandescent lamps. 2 hours, first half-year. Professor CROCKER and Mr. ARENDT



24—Special problems and original investigations in advanced electrical engineering. Post-graduate work under the direction of the officers of the department.

25—Design of alternating-current machinery—Original design of alternating-current generators, motors, transformers, etc. 2 hours, second half-year. Mr. TOWNSEND

26—Graduation thesis for degree of Electrical Engineer—Original work and report on a subject approved by the head of the department.

27—Direct-current laboratory—Short course for students in Mechanical Engineering. 1 afternoon, first half, third year. Professor SEVER and assistants

28—Alternating-current laboratory—Short course for students in Mechanical Engineering. 1 afternoon, part of first half, fourth year. Mr. TOWNSEND

29—Theory of dynamo-electric machinery—Study of the fundamental actions in dynamos and motors, including the discussion of their characteristic curves. 1 hour, first half-year. Mr. TOWNSEND

37—Elements of electrical engineering—General electrical principles, laws, measurements, and the introduction to their applications. 2 hours, first half-year. Mr. TOWNSEND

105—Direct-current laboratory—Short course for students in Civil, Sanitary, and Mining Engineering, Metallurgy, and Chemistry (Course B). 1 afternoon, second half-year. Professor SEVER and assistants

### Equipment

The offices, laboratories, lecture, and other rooms of the Electrical Engineering Department are in the south end of Engineering. In the basement are situated the two machine laboratories, for direct-current machinery, and alternating-current apparatus.

The various machines include examples of constant potential generators, constant-current, arc-lighting dynamos, many types of stationary and railway motors, and motor-dynamos. Machine and hand tools are provided for making and repairing apparatus. Complete sets of ampere and volt meters, speed indicators, and transmission and absorption dynamometers are available for testing the various dynamos and motors.

The alternating-current apparatus includes single-phase and poly-phase generators, induction and synchronous motors, rotary converters, and various types and sizes of transformers. Each alternator is driven by a separate electric motor, enabling its speed to be independently regulated. Complete sets of alternating-current measuring instruments and curve-tracing apparatus are also provided.

The lecture-rooms are provided with an ample supply of electrical energy of different forms, and other facilities for experimental demon-



strations. The museum contains cases for the collection of apparatus, models, and materials relating to Electrical Engineering.

The large instrumental laboratory on the third floor contains various forms of galvanometers, ampere balances, potentiometers, standard cells, and resistances; measuring apparatus, laboratory standard volt and ampere meters. A storage battery is provided for testing purposes and for calibration and standardization. The research room is used for special post-graduate and thesis work.

A most important facility is the large and reliable supply of electric power which is afforded by the central power plant of the University. This plant, which has a total capacity of 750 H.P., illustrates the latest and best practice in electrical engineering, and furnishes current for electric lighting, for driving the motors and fans used in ventilating all of the buildings, and for experimental purposes.

### English

BRANDER MATTHEWS, D.C.L., Litt.D., LL.D.....	<i>Professor</i>
GEORGE RICE CARPENTER, A.B.....	<i>Professor</i>
WILLIAM PETERFIELD TRENT, M.A., LL.D.....	<i>Professor</i>
FRANKLIN THOMAS BAKER, A.M.....	<i>Professor in Teachers College</i>
WILLIAM TENNEY BREWSTER, A.M.....	<i>Adjunct Professor</i>
GEORGE C. D. ODELL, Ph.D.....	<i>Adjunct Professor</i>
HERBERT VAUGHN ABBOTT, A.B..	<i>Adjunct Professor in Teachers College</i>
WILLIAM ALLAN NEILSON, Ph.D.....	<i>Adjunct Professor</i>
VIRGINIA CROCHERON GILDERSLEEVE, A.M.....	<i>Tutor</i>
CHARLES MONTGOMERY HATHAWAY, Jr., Ph.D.....	<i>Tutor</i>
KENNETH C. M. SILLS, A.M. ....	<i>Tutor</i>
GEORGE PHILIP KRAPP, Ph.D. ....	<i>Lecturer</i>
FRANCIS XAVIER CARMODY, A.B., LL.B. ....	<i>Lecturer</i>
ARMOUR CALDWELL, A.B.....	<i>Assistant</i>
WILLIAM BRIAN HOOKER, A.M.....	<i>Assistant</i>
MARGARET ELIZABETH BALL, A.M. ....	<i>Assistant</i>

Course A is given at Columbia College, at Barnard College, and at Teachers College.

The undergraduate courses B, 1, 3, 10, 15, 16, 17, 19, are given both at Columbia College and at Barnard College. Course A is prescribed for freshmen and Course B for sophomores.

Courses 2 and 20 are given only at Columbia College.

Course 21 is given only at Barnard College.

Courses 30-51 and Seminars A, B, and C are open to graduate students (but Courses 40-44 are not open to women).

For pre-requisites for admission into courses, and a fuller description of the scope of each course, see the Circular of the Division of Modern Languages and Literatures.

## Courses

A—English literature and composition. 3 hours. Professor ODELL, Mr. CALDWELL, and Mr. HOOKER (Columbia College); Professor BREWSTER, Miss GILDERSLEEVE, and Miss BALL (Barnard College); Professor ABBOTT (Teachers College)

B—English literature and composition. 2 hours (Columbia); 3 hours (Barnard). Mr. SILLS (Columbia); Professor BREWSTER, Miss GILDERSLEEVE, and Miss BALL (Barnard)

1—English composition—Daily themes and fortnightly essays, lectures, and consultations. 3 hours. Professor G. R. CARPENTER (Columbia); Professor BREWSTER (Barnard)

2—Elocution—Lectures and exercises. 2 hours. Mr. CARMODY (Columbia)

3—Public speaking and debating. 3 hours. Mr. CARMODY (Columbia); Miss GILDERSLEEVE (Barnard)

10—Anglo-Saxon, introduction to the history of the English language. 2 hours. Dr. KRAPP

15—American literature. 3 hours. Professor BRANDER MATTHEWS, Mr. CALDWELL (Columbia); Professor G. R. CARPENTER (Barnard)

16—English literature in the nineteenth century. 3 hours. Professor ODELL and Mr. CALDWELL (Columbia); Professor TRENT (Barnard)

17—English literature in the eighteenth century. 3 hours. Professor ODELL (Columbia); Professor TRENT (Barnard)

[18—English literature in the eighteenth century. 3 hours. Professor ODELL (Columbia); Professor TRENT (Barnard)]

Courses 17 and 18 are given in alternate years.

19—Shakspeare. 2 hours. Professor NEILSON

20—The development of English fiction. 3 hours. Professor BRANDER MATTHEWS (Columbia)

21—The development of the English drama. 3 hours. Professor BREWSTER (Barnard)

[30—English composition. 2 hours. Professor G. R. CARPENTER]

31—The theory of English usage. 2 hours. Professor G. R. CARPENTER

33—Anglo-Saxon literature: poetry and prose. 2 hours. Dr. KRAPP

34—Anglo-Saxon lyric poetry; English of the transition period. 2 hours. Dr. KRAPP

37—Chaucer. 2 hours. Professor NEILSON

[40—Epochs of the drama. 2 hours. Professor BRANDER MATTHEWS]

41—Dramatists of the nineteenth century. 2 hours. Professor BRANDER MATTHEWS

Courses 40 and 41 are given in alternate years.

[42—Molière and modern comedy. 2 hours. Professor BRANDER MATTHEWS]

43—English comedy: its history and its methods. 2 hours. Professor BRANDER MATTHEWS

Courses 42 and 43 are given in alternate years.

44—The history of the drama—Special topics. Professor BRANDER MATTHEWS

46—Studies in the English drama. 2 hours. Dr. HATHAWAY

[47—English literature from 1625-1701. 2 hours. Professor TRENT]

[48—English literature from 1701-1798. 2 hours. Professor TRENT]

49—English literature in the first half of the nineteenth century. 2 hours. Professor TRENT

Courses 47, 48, 49, are given in successive years.

[50—English poetic forms. 2 hours. Professor TRENT]

[51—English prose. 1 hour. Professor BREWSTER]

Seminar A—Scottish literature before the Reformation. 2 hours. Professor NEILSON

Seminar B—English literature from 1603 to 1625. 2 hours. Professor TRENT

Seminar C—Discussion of dissertations. Professors TRENT and NEILSON, Dr. KRAPP and Dr. HATHAWAY

### Undergraduate Courses in Teachers College

T. C. 2—Shakspeare—Recitations, lectures, fortnightly reports, and conferences. 2 hours. Professor ABBOTT

T. C. 3—Composition—Lectures, fortnightly themes or tri-weekly paragraphs, and conferences. 2 hours. Professor ABBOTT

T. C. 5—Nineteenth-century poetry—Recitations, conferences, and reports. 2 hours. Professor BAKER

T. C. 10—The folk story. 2 hours, second half-year. Lectures and reading. Professor ABBOTT

### Fine Arts

Nine courses in Fine Arts are offered under the auspices of Teachers College. For details see the *Announcement of Teachers College* and the special circular of the department, which will be sent, without charge, upon application to the Secretary of the University.

(See also the Departmental Statements of Architecture and Music in this volume.)

## French

(See Romance Languages and Literatures)

## Geography

RICHARD E. DODGE, A.M.....	<i>Professor</i>
CLARA B. KIRCHWEY.....	<i>Tutor</i>

## Courses

There are four courses given under the auspices of Teachers College: 1, 2, 3, and 10. See also Education 32, 72, and 132.

1—General geography. Lectures, laboratory work, and collateral reading. 2 hours. Professor DODGE and Miss KIRCHWEY  
Laboratory fee, \$2.00.

2—General geography continued—Lectures, laboratory work, and collateral reading. 2 hours. Professor DODGE and Miss KIRCHWEY  
Laboratory fee, \$2.00.

3—The Geography of the United States—Lectures and library work. 1 hour. Professor DODGE

[10—Physiography, first half-year. Physiography of the United States, second half-year. Lectures, laboratory, and library. 3 hours. Professor DODGE and Miss KIRCHWEY

Laboratory fee, \$2.00.

*Not given in 1904-05]*

## Equipment

The Department of Geography occupies a suite of five rooms on the second floor of the Teachers College. A lecture-room capable of holding fifty, a well-lighted laboratory with table spaces for thirty, two offices, and a large work- and stock-room, compose the suite. The lecture-room is furnished with lantern, models, and wall maps; the laboratory contains several large models, and has a set of the more important weather instruments in an outdoor shelter. The supply of topographic, climatic, and special maps, of diagrams, of physical models, and of lantern slides is large, and has been especially chosen for use in the several courses announced above.

## Geology

JAMES FURMAN KEMP, A.B., E.M.....	<i>Professor</i>
AMADEUS WILLIAM GRABAU, S.D.....	<i>Adjunct Professor</i>
CHARLES PETER BERKEY, Ph.D.....	<i>Tutor</i>
ALEXIS ANASTAY JULIEN, Ph.D.....	<i>Curator</i>
<sup>1</sup> IDA HELEN OGILVIE, Ph.D.....	<i>Lecturer in Barnard College</i>
WILLIAM CAMPBELL, Ph.D.....	<i>Special Lecturer</i>

<sup>1</sup> Absent on leave.



*For full information regarding the following courses see the Announcement of the Division of Geology, Geography, and Mineralogy.*

Courses 1, 2, 3, 7, 8, 13, and 16a are open to College students; Courses 2, 3, 4, 6, 10, 13, 16a, and 18 are open to students in Applied Science; Courses 2, 3, 6, 7, 8, 10, 15, 16b, and 17 are open to graduate students.

### Courses

1—General geology. 2 hours lectures and 2 hours laboratory, counting as a three-hour course. Professor GRABAU and Dr. BERKEY

2—General geology. 3 hours lectures. Professor KEMP, Professor GRABAU, and Dr. BERKEY

3—Economic geology. 3 hours lectures. Professor KEMP

4—Petrography. 2 lectures and 1 afternoon for two months, second term. Compare Mineralogy 6. Professor KEMP and Dr. BERKEY

6—Petrology. 2 lectures and at least 4 hours laboratory. Professor KEMP and Dr. BERKEY

7—Invertebrate palæontology. 2 lectures and at least 4 hours laboratory. Professor GRABAU

8—Comparative geology—A comparative description and study of the geological formations of North America. 2 lectures and 4 hours reading and laboratory. Professor KEMP for the crystalline and pre-Cambrian rocks, Professor GRABAU for the fossiliferous

10—Geological examinations and surveys—A discussion of field methods and of the organization of geological surveys. 2 lectures, second term. Professor KEMP

12—A thesis which will furnish the major course for the concluding year of study for the degree of Doctor of Philosophy

13—Field geology—Ten days field work, and report upon the same, during the vacation. Given in two sections, the Eastern section immediately at the close of the spring examinations, the Western section in connection with Mining 11

14—Geology of Europe. 2 lectures and 4 hours laboratory and library work. Professor GRABAU and Dr. CAMPBELL

15—Phylogeny of a special group of fossil invertebrates. 6 or more hours laboratory and conference by appointment. Pre-requisite, Course 7. Professor GRABAU

16a—Fossil faunas—A study of American fossil faunas. 1 lecture and 8 or more hours laboratory, second term. Pre-requisite, Course 1 or 2. Professor GRABAU

16b—A more extended course which may be taken as a minor or partial major. 6 hours or more laboratory, and additional conferences. Professor GRABAU

17—Stratigraphy—Faunas of a special horizon or locality. 6 hours or more laboratory and conference by appointment. Professor GRABAU

18—General geology. 3 hours lectures during the second term. Field work on Saturdays during the last six weeks. Special course for students in Civil Engineering. Dr. BERKEY

[19—General geology—A course in general geology, 3 lectures weekly, and equivalent to Course 1 above, is offered students from Barnard and Teachers Colleges. Dr. OGILVIE

*Not given in 1904-05]*

20—Palæogeography of North America. A study of the development and changes of continents and ocean basins in the past. 1 hour seminar, and laboratory according to arrangement. Pre-requisite, Geology 8, and 16a or 16b. Professor GRABAU

The department has ample laboratories and a full equipment for its several lines of work, details of which will be found in the Circular of the Faculty of Pure Science.

Related courses in Physiography are given in Teachers College by Professor R. E. DODGE in close association with this department.

The following courses in Palæobotany are offered at the New York Botanical Garden by Dr. ARTHUR HOLLICK

Geology 9a—General palæobotany—Developmental history and structure of the fossil flora of some selected locality. Laboratory and museum.

Geology 9b—Cretaceous flora of eastern North America—Collection and determination of specimens of some station with attention to stratigraphic relations. Field and laboratory.

The palæobotanical library and collections of Columbia University have been deposited at the New York Botanical Garden.

### Germanic Languages and Literatures

WILLIAM HENRY CARPENTER, Ph.D. . . . *Villard Professor of Germanic Philology*

CALVIN THOMAS, LL.D. . . *Gebhard Professor of the Germanic Languages and Literatures*

ELIJAH WILLIAM BAGSTER-COLLINS, A.M. . . . . *Adjunct Professor in Teachers College*

WILLIAM ADDISON HERVEY, A.M. . . . . *Adjunct Professor*

RUDOLF TOMBO, JR., Ph.D. . . . . *Adjunct Professor*

ARTHUR F. J. REMY, Ph.D. . . . . *Instructor*

RUDOLF TOMBO, SR., Ph.D. . . . . *Tutor in Barnard College*

WILHELM ALFRED BRAUN, Ph.D. . . . . *Tutor in Barnard College*

ERNST RICHARD, Ph.D. . . . . *Lecturer*

ANNINA PERIAM, A.M. . . . . *Assistant in Barnard College*

JOHN LOUIS KIND, A.M. . . . . *Assistant*

PHILIPP SEIBERTH, A.M. . . . . *Assistant*

The department, as its name implies, offers instruction, not only in German, but in the kindred languages and literatures of the other

members of the Germanic group. The courses offered by the department are grouped under the following heads: German, Scandinavian languages, Low Germanic languages, Gothic, and Germanic Philology. In German the aim of the instruction is primarily to enable students to use the modern language with facility in reading, writing, and, as far as possible, in speaking, and to acquaint them with the masterpieces of German literature. Opportunity is also given to acquire a reading knowledge of the languages of the other Germanic nations, and to study their literatures. Parallel courses are arranged in such a way that while both language and literature are combined in the earlier courses, either side may be subsequently emphasized at will. Courses are also given in the philology of the whole Germanic group. Work supplementary to the lectures is given in the Seminar.

Course A is prescribed for freshmen in the College who did not present Elementary German at entrance; Course 1 is equivalent to Course A plus a one-hour elective; Courses 2 and 22 are open to students who presented Elementary German at entrance, or have taken Course A; Course 3a is open to students who have presented the Intermediate requirement at entrance, or have taken Course 1, 2, 22, or an equivalent; Courses 3b and 4 are equivalent courses, open to students who have presented the Intermediate requirement at entrance, or have taken Course 1, 2, or an equivalent; Course 5 is open to others than freshmen on the same terms as Courses 3b and 4; Courses 6 and n are open to students who have taken Course 3, 4, or an equivalent; Course 7 is open to students who have taken Course 6 or an equivalent; Course 8 is open to students who have taken Course 22, 3, 4, 5, or an equivalent, or who have taken Course 22, and are taking Course 3, 4, or 5; Courses 10-21, 23, and 24 are open, with the permission of the Instructor, to seniors; Courses A, 1-24, are open to university students. The Seminar is open to advanced students only.

Courses A, 1, 2, 22, 3, 4, 5, and 8 may not be counted towards the degree of Master of Arts or Doctor of Philosophy, and all other courses may be so counted only when such additional work is taken in connection with them as may be prescribed by the Instructor in charge.

All the courses in this department, with the exception of A, 1, 2, 22, 3, 4, 5, 6, 7, 8, and 9, are open to women on the same terms as to men. Women wishing to enter any of the courses as special students or as candidates for the bachelor's degree must register through Barnard College or Teachers College.

Courses 6, 7, 9-21, 23, and 24 are open, with the consent of the Instructor, to auditors.

Courses A, 2, 3, 4, 6, and 8 are also given in Barnard College. A parallel course to Course 20 is given as Course 25 in Barnard College. Courses 10-21, 23, and 24 are open, with the permission of the Instructor, to seniors of Barnard College.

Courses A, 2, 30, and Education 74 are given in Teachers College.

## Courses in German

A—Elementary course. 3 hours. Professor HERVEY, Mr. KIND, and Mr. SEIBERTH

1—Longer elementary course. 5 hours in second half-year. Mr. KIND and Mr. SEIBERTH

2—Reading, grammar, and composition. 3 hours. Dr. REMY and Mr. KIND

22—Grammar and composition. Syntax and word-formation; sight-reading and colloquial practice. 2 hours. Professor HERVEY and Mr. SEIBERTH

3a—Selected works of Goethe, Schiller, and Lessing. Texts, chiefly dramatic, and essays. Intended primarily for students who have not previously read works of these authors. 3 hours. Professor HERVEY

3b—Selected works of Goethe, Schiller, and Lessing. Texts and essays. Intended primarily for students who have some acquaintance with the works of these authors. 3 hours. Professor HERVEY

4—Historical prose. One volume of Freytag's *Bilder aus der deutschen Vergangenheit*, and other works of a historical character. 2 hours. Professor R. TOMBO, Jr.

5—Lessing's *Laokoon* and *Hamburgische Dramaturgie*. Lectures and recitations. 2 hours. Dr. REMY

6a—History of German literature from the earliest times to the Reformation. Lectures, themes, and readings from Müller's *German Classics*. 2 hours. Professor THOMAS

[6b—History of German literature from the Reformation to the nineteenth century. Lectures, themes, and readings from Müller's *German Classics*. 2 hours. Professor THOMAS

*Not given in 1904-05]*

Courses 6a and 6b are given in alternate years.

7—Goethe's *Faust*: First and second parts. Lectures and recitations. 2 hours. Professor THOMAS

8—Practice in speaking and writing German. Talks and themes, all in German, upon linguistic and literary topics. 2 hours. Dr. REMY and Mr. SEIBERTH

9—History of the German language. Lectures and texts. 2 hours. Professor W. H. CARPENTER

23—Epochs of German culture. The age of chivalry. Lectures, themes, and readings. 2 hours. Professor HERVEY

[10a—Great German writers. Lessing (first half-year) and Goethe (second half-year). 2 hours. Professor THOMAS

*Not given in 1904-05]*

10b—Great German writers. Schiller (first half-year) and Heine (second half-year). 2 hours. Professor THOMAS

Courses 10a and 10b are given in alternate years.



11—Old High German. Lectures and texts. 2 hours. Professor R. TOMBO, Jr.

[21—Middle High German. Lectures and texts. 2 hours. Professor HERVEY

*Not given in 1904-05]*

Courses 11 and 21 are given in alternate years.

20—History of German literature in the nineteenth century. Lectures. 2 hours. Professor THOMAS

30—Reading course in educational German. 2 hours. Professor BAGSTER-COLLINS.

Given in Teachers College.

Education 74—Theory and practice of teaching German in secondary schools. Lectures, discussions, reports, and practical work. 2 hours; practical work, 1 hour. Professor BAGSTER-COLLINS

Given in Teachers College.

#### Courses in Scandinavian Languages

[12—Swedish. Elementary course in the language, with miscellaneous reading, and a general survey in lectures of the history of Swedish literature. 2 hours. Professor THOMAS

*Not given in 1904-05; to be given in 1906-07]*

Swedish alternates with Danish and Dutch in a cycle of three years.

13—Danish. Elementary course in the language, with miscellaneous reading, and a general survey in lectures of the history of Danish literature. 2 hours. Professor THOMAS

[14—Icelandic. Elementary course. 2 hours. Professor W. H. CARPENTER

*Not given in 1904-05]*

15—Icelandic. Advanced course. Lectures and texts. 2 hours. Professor W. H. CARPENTER

Courses 14 and 15 are given in alternate years.

#### Courses in Low Germanic Languages

[16—Dutch. Elementary course in the language, with miscellaneous reading, and a general survey in lectures of the history of Dutch literature. 2 hours. Professor W. H. CARPENTER

*Not given in 1904-05; to be given in 1905-06]*

[24—Old Saxon. 2 hours. Professor R. TOMBO, Jr.

*Not given in 1904-05; to be given in 1905-06]*

Courses 11 and 24 are given in alternate years.

#### Course in Gothic

17—Gothic. 2 hours. Dr. REMY

**Course in Germanic Philology**

18—General introduction to Germanic philology. Lectures and exercises. 2 hours. Professor W. H. CARPENTER

**Germanic Seminar**

A—(first half-year)—The Middle High German *Sängerkrieg auf der Wartburg*. 2 hours. Professor W. H. CARPENTER

B—(second half-year)—The earlier works of Herder. 2 hours. Professor THOMAS

The Seminar is open to advanced students only. Attendance at the meetings is obligatory upon candidates for the degree of Doctor of Philosophy whose major subject lies in this department.

**Public Lectures**

A course of lectures in the German language on popular subjects, intended primarily for the students of the University, but to which the general public is also invited, is given yearly under the auspices of the department.

**Journal Club**

The Journal Club is an organization founded in 1902 for the purpose of reviewing and discussing important contributions to recent numbers of the numerous journals devoted to Germanic studies. The Club consists of the officers, fellows, and scholars of the department. Meetings are held once in two weeks in the departmental library.

**Deutscher Verein**

The Deutscher Verein of Columbia University, founded in 1898, is an association of the students and instructors of the University who are interested in the culture of the German language and literature, and in the acquisition of a more intimate knowledge of Germany, of German institutions, and of the German people than is furnished by academic study alone. The active membership consists of instructors in all departments of the University, of students in residence to the limited number of fifty, and of previous members of the Verein who are no longer students. An honorary membership is made up of prominent German-speaking citizens of New York. Stated meetings are held on the second and fourth Mondays of each month in the room assigned to the Verein in West Hall, which is accessible at all times and forms a convenient club and reading-room.

**Equipment**

The University Library offers excellent facilities for the study of German, both on the literary and the linguistic side. In German literature most periods are well represented. The Goethe collection, which consists of more than 1300 titles, affords to the student of Germany's greatest author an exceptional opportunity for the prosecution of his researches. The Scandinavian collection contains a good repre-

sensation of the ancient saga and poetical literature, and most of the eminent writers of modern Norway, Denmark, and Sweden. The Holland Society library, deposited with the University in 1901, contains a considerable collection of books and pamphlets in the Dutch language from all periods.

The Library has sets and the current numbers of all the important periodicals which deal with Germanic literature and Germanic and general philology. It has also sets of periodicals no longer published, and a large collection of the transactions and publications of the learned societies of America and Europe.

A reference library, containing the most important subsidia for the critical study of the Germanic languages and literatures—dictionaries, bibliographies, biographies, histories of literature, and the like—and independent of the main collection in the University Library, is placed in a room adjacent to the main lecture-room and the offices of the department in University Hall.

The income of the Carl Schurz Library Fund (\$10,000), contributed by citizens of New York in commemoration of the seventieth birthday of Carl Schurz, is, by the terms of the gift, devoted in perpetuity to the purchase of books in the field of the German language and literature.

The Carl Schurz Fellowship in the German Language and Literature, of the value of eight hundred dollars, the income of a fund (\$10,000) contributed by citizens of New York in commemoration of the seventieth birthday of Carl Schurz, is awarded every alternate year, beginning July 1, 1902.

## Greek

*(Including Archæology and Epigraphy)*

EDWARD DELAVAN PERRY, Ph.D., LL.D.....	<i>Jay Professor</i>
<sup>1</sup> JAMES RIGNALL WHEELER, Ph.D.....	<i>Professor</i>
MORTIMER LAMSON EARLE, Ph.D....	<i>Professor of Classical Philology</i>
GONZALEZ LODGE, Ph.D.....	<i>Professor of Greek and Latin</i> <i>in Teachers College</i>
CLARENCE HOFFMAN YOUNG, Ph.D.....	<i>Adjunct Professor</i>
CHARLES KNAPP, Ph.D.....	<i>Adjunct Professor of Classical Philology</i>
GERTRUDE MARY HIRST, Ph.D.....	<i>Tutor in Classical Philology in</i> <i>Barnard College</i>
ROSCOE GUERNSEY, Ph.D.....	<i>Tutor</i>
STEPHEN AUGUSTUS HURLBUT, A.M....	<i>Lecturer in Classical Philology</i> <i>in Barnard College</i>
OLIVER SAMUEL TONKS, Ph.D.....	<i>Lecturer in Greek</i>

Courses A, B, 3, 5, and 6, except as given at Barnard College, are closed to women. Course 7 is closed to women undergraduates. The other courses are open to women on the same terms as to men.

Courses 8, 17, 19, and 20 are open to auditors.

<sup>1</sup> Absent on leave

Courses A, B, 5, 6, 7, 8, 12, 17, 19, and 20 are open as electives to properly qualified students in Columbia College; but of these Courses 8, 12, 17, 19, and 20 are open to seniors only. For freshmen who did not present Greek at entrance Course A counts as a 5-hour course. It cannot be counted toward the degree by other students.

Courses 17, 19, and 20 are open as electives to properly qualified students in Barnard College.

Courses 8, 12, 17, 19, 20, and 22, the Classical Proseminar, and the Greek Seminar are open to graduate students and may be counted toward the higher degrees.

Courses 6 and 7 are also open to graduate students, but may not be counted toward the higher degrees.

[NOTE.—Only courses offered in 1904-05 are here given.]

*For more detailed information as to the scope of each course, the work pre-requisite to it, and the like, consult the Announcement of the Division of Classical Philology for 1904-05.*

### Courses

A—Elementary course. 5 hours. Dr. GUERNSEY

B—First half-year: Selections from Plato and Lysias. Second half-year: Homer's *Odyssey*, selections. Greek prose composition fortnightly throughout the year. 3 hours. Dr. TONKS and Dr. GUERNSEY

3—First half-year: Euripides' *Alcestis*; Sophocles' *Ajax*; required reading (in English, French, or German, at the option of the student), and lectures on the Greek drama. Second half-year: Selections from Demosthenes, with required reading as above. 3 hours. Professor YOUNG (first half-year) and Dr. TONKS (second half-year)

An additional hour weekly in advanced Greek composition will be offered by Dr. GUERNSEY, and students who take this may count Course 3 as a four-hour course, or Course 5 as a three-hour course.

5—Herodotus and minor Greek poets. 2 hours. Professor PERRY and Dr. TONKS

6—First half-year: Sophocles' *Electra* and Æschylus' *Prometheus*. Second half-year: Selections from Thucydides. For private reading in the course of the year, with occasional conferences with the Instructor: Plato, *Protagoras* or selections. 3 hours. Dr. GUERNSEY (first half-year) and Professor YOUNG (second half-year)

7—Greek composition, advanced course. One session weekly, with written exercises, counting as a two-hour course. Professor YOUNG

12—Lyric and bucolic poets. 3 hours. Professor PERRY

17—Introduction to Greek archæology. Part I: Vases, Painting. 2 hours. Dr. TONKS

19—Manners and customs of the ancient Greeks. 2 hours. Professor YOUNG



20—Readings from Pausanias, with illustrated lectures on Olympia and Attica. 2 hours. Professor YOUNG

22—Greek dialect inscriptions. 2 hours. Professor PERRY

### Classical Proseminar

Lectures on the principles and methods of classical study, with Greek and Latin bibliography. 2 hours. Professors PERRY and PECK

### Classical Seminar

Greek section: Critical study of portions of Thucydides. One session weekly throughout the year, counting as a three-hour course. Professor EARLE

Attendance is obligatory upon candidates for the degree of Doctor of Philosophy and strongly recommended to those for the master's degree, whose major subject lies in this department.

### Courses in New Testament Greek at the Union Theological Seminary and the General Theological Seminary

Such courses may count as *part* of the work required for the degrees of Master of Arts and Doctor of Philosophy at Columbia University; but students who intend to avail themselves of this privilege must come to an understanding with the Dean of the Faculty of Philosophy of Columbia University with regard to equivalence of courses and additional work required, at the time of registering themselves, or of renewing their registration, as candidates for a degree.

### Courses in Barnard College

A—Beginners' course: Grammar, composition, Xenophon's *Anabasis*, Homer's *Iliad*. 3 hours. Mr. HURLBUT

B—Plato: *Apology*, *Crito*, and *Euthyphro*; first half-year. Homer: *The Odyssey* (selections); second half-year. Greek prose composition. 3 hours. Dr. HIRST and Mr. HURLBUT

3—Euripides: *Alcestis* and *Iphigenia in Tauris*; first half-year. Demosthenes: *Olynthiacs* and *Philippics*; second half-year. 3 hours. Professor EARLE and Mr. HURLBUT

4—Rapid reading of Homer. 2 hours. Professors WHEELER and YOUNG

6—Sophocles: *Antigone* and *Œdipus Tyrannus*; first half-year. Herodotus VI. and VII.; second half-year. 3 hours. Professors EARLE and KNAPP

7—Advanced Greek prose composition. 2 hours. Professor EARLE

8—New Testament Greek: Reading of the *Gospel according to Luke* and the *Acts of the Apostles*, with special regard to the forms and idioms of New Testament Greek. 2 hours. Mr. HURLBUT

32—The Greek Lyric Poets; first half-year. Æschylus, two or more plays; second half-year. 3 hours. Professor PERRY

### Courses in Teachers College

Education 76—Theory and practice of teaching Greek in secondary schools—Lectures, reports, and practical work. 3 hours. Professor LODGE

Education 136—Practicum in Greek. Xenophon and Homer. Lectures, interpretations, and reports. 2 hours. Professor LODGE

### Gynecology

EDWIN B. CRAGIN, M.D.	Professor
WILLIAM S. STONE, M.D.	Chief of Clinic and Instructor
FRANK S. MATHEWS, M.D.	Instructor
FRANK R. OASTLER, M.D.	Instructor
HOWARD C. TAYLOR, M.D.	Instructor
CHARLES J. PROBEN, M.D.	Instructor
WILLIAM P. HEALY, M.D.	Instructor

### Clinical Assistants

WM. L. BRADLEY, M.D.	ROBERT L. LOUGHRAN, M.D.
GEO. H. MALLETT, M.D.	PERCY K. WILLIAMS, M.D.
ARTHUR H. GARDNER, M.D.	HAROLD D. MEEKER, M.D.

### Courses

Courses 1 and 2 are required in the third year of candidates for the degree of M.D., and Courses 3 and 4 in the fourth year. Course 5 is optional in the fourth year.

1—The principles and practice of gynecology—Lectures, 3 a week, 2 didactic and 1 clinical, during the second half-year. Professor CRAGIN

2—Recitations and demonstrations. 1 hour a week for each student, first half-year. Dr. MATHEWS

3—Minor operations and demonstrations to small sections at the Roosevelt Hospital. 3 times a week for two weeks. Dr. TAYLOR

4—Practical instruction in diagnosis, treatment, and the use of instruments. 12 lessons for each student, at the Vanderbilt Clinic. Drs. STONE, OASTLER, PROBEN, and HEALY

5—Hospital clinic in operative gynecology—Roosevelt Hospital, McLane Operating Theatre. Dr. TUTTLE

### History and Political Philosophy

WILLIAM MILLIGAN SLOANE, Ph.D., L.H.D., LL.D.	Seth Low Professor
HERBERT LEVI OSGOOD, Ph.D.	Professor
WILLIAM ARCHIBALD DUNNING, Ph.D., LL.D.	Lieber Professor of History and Political Philosophy
JAMES HARVEY ROBINSON, Ph.D.	Professor
WILLIAM ROBERT SHEPHERD, Ph.D.	Instructor

<sup>1</sup> JAMES THOMSON SHOTWELL, Ph.D.....	<i>Instructor</i>
GEORGE WILLIS BOTSFORD, Ph.D.....	<i>Instructor</i>
CHARLES AUSTIN BEARD, Ph.D.....	<i>Lecturer</i>
LOUISE ROPES LOOMIS, A.M. ....	<i>Lecturer in Barnard College</i>
VALDIMIR SIMKHOVITCH, Ph.D. ....	<i>Lecturer</i>

There are three groups of courses in this department: disciplinary, narrative, and research. Course A is required of all candidates for the A.B. degree; with it may be classed Courses 1, 2, 3, and 4. Courses 5, 6, 11, 14, 30, 31, 40, 50, and 51 are preparatory to the independent investigation of historical subjects, and are open to properly qualified students of Columbia College and Barnard College, and the rest are intended for the training of candidates for the higher degrees. These all may be supplemented and complemented by courses given in other departments which deal with subjects constituting an integral part of the domain of history: viz., history of European law, general history of diplomacy, history of American diplomacy, and the historical courses in Economics, Social Science, and Philosophy. The University likewise affords excellent opportunities for the study of anthropology, archæology, political geography, and philology in their intimate connection with historical research.

### Courses in History

A—Epochs of ancient, mediæval, and modern history. 3 hours. Columbia College, Dr. SHEPHERD and Dr. BEARD; Barnard College, Miss LOOMIS

[1—Continental European history, mediæval and modern, to the Peace of Westphalia. 3 hours. Dr. SHOTWELL  
*Not given in 1904-05]*

2—Continental European history, modern and contemporaneous. 3 hours. Dr. BEARD

3—English history to the Reform Bill (1832). 3 hours. Columbia College, Dr. BEARD; Barnard College, Miss LOOMIS

4—History of the United States to the close of Reconstruction (1877). 3 hours. Columbia College, Professor DUNNING; Barnard College, Dr. SHEPHERD

[6—History of Great Britain during the eighteenth and nineteenth centuries. 2 hours. Professor OSGOOD  
*Not given in 1904-05]*

7—European history, 1815-1848. 2 hours. Professor SLOANE

[8—Contemporary European history since 1848. 2 hours. Professor SLOANE

*Not given in 1904-05]*

<sup>1</sup> Absent on leave.

[10—Historical bibliography—The sources of mediæval and modern European history—Apparatus of historical study. 2 hours. Dr. SHOTWELL

*Not given in 1904-05]*

11—The intellectual history of western Europe from the break-up of the Roman Empire to the Protestant revolt. 2 hours. Professor ROBINSON

12—Mediæval institutions and culture—A research course open only to those who can read Latin and French fluently. Luchaire's *Manuel des Institutions françaises* will be used as a hand-book. 2 hours. Professor ROBINSON

[13—Opening of the Lutheran revolt (1517-26)—A research course, open only to those who can read German and Latin fluently. 2 hours. Professor ROBINSON

*Not given in 1904-05]*

14—Europe and the French Revolution. 2 hours. Professor ROBINSON

15—The work of Napoleon—This course is open to such selected individuals as give evidence of capacity for original research, and read French and German fluently. 2 hours, first half-year. Professor SLOANE

16—The constitutional history of England to 1689. 2 hours. Professor OSGOOD

17—Modern Russia, its political doctrines and course of expansion. 1 hour. Dr. SIMKHOVITCH

18—Seminar in later mediæval and modern European history. 2 hours every other week. Professor ROBINSON

19—History of the primitive and early Catholic Church. 3 hours, first half-year. Given at the Union Theological Seminary.

20—History of the western Catholic Church and of the Protestant Reformation. 3 hours, second half-year. Given at the Union Theological Seminary.

26—Seminar in Church history. 2 hours, bi-weekly. Given at the Union Theological Seminary.

31—Political and constitutional history of the United States. 2 hours. Columbia College, Professor BURGESS; Barnard College, Dr. SHEPHERD

[32—American colonial history during the seventeenth century — Open only to approved candidates for the degrees of A.M. and Ph.D., and to such special students as receive permission to attend. 2 hours. Professor OSGOOD

*Not given in 1904-05]*

[33—American colonial history during the eighteenth century —



This course is open to the same class of students as is History 32.  
2 hours. Professor OSGOOD

*Not given in 1904-05]*

34—European politics and the War of 1812—Research course given to selected individuals who show capacity for original research, and read French and German fluently. 2 hours, second half-year. Professor SLOANE

[35—The United States since 1850. 2 hours. Professor DUNNING

*Not given in 1904-05]*

36—History of Spanish America. 2 hours. Dr. SHEPHERD

37—Seminar in American colonial history. 1 hour. Professor OSGOOD

38—The American Revolution. 2 hours. Professor OSGOOD

39—Seminar in later American history. 1 hour. Professor DUNNING

50—History of Greece and Rome. 3 hours. Dr. BOTSFORD

52—Constitutional history of the Roman Republic. 2 hours. Dr. BOTSFORD

[53—Roman political institutions. 2 hours. Professor MUNROE SMITH

*Not given in 1904-05]*

55—Seminar in Greek and Roman history. 2 hours. Dr. BOTSFORD

56—The history of western Asia and Egypt. 2 hours. Professor PRINCE

[57—History of India and of Persia. 2 hours, first half-year. Professor JACKSON

*Not given in 1904-05]*

[58—Rise of Arabian civilization and the spread of Mohammedanism. 2 hours a week, second half-year. Professor GOTTHEIL

*Not given in 1904-05]*

59—History of China. 1 hour. Professor HIRTH

For Extension courses in History, see the special announcement of Extension Teaching.

### Courses in Political Philosophy

40—General history of political theories. 2 hours. Professor DUNNING

41—American political philosophy. 2 hours. Professor DUNNING

42—Seminar in political philosophy. 1 hour. Professor DUNNING

### Equipment

The University Library is one of the two or three best similar institutions in the country. It contains about 350,000 volumes, among which are many of the great published collections for the study of

ancient, mediæval, and modern history. The special library of history and political science numbers upwards of 100,000 volumes. The great libraries of New York, Astor, Lenox, and Tilden foundations, those of the New York and Long Island Historical Societies and of the Bar Association are, under certain conditions, also accessible to students. Fuller information as to courses and opportunities for historical work is given in the *Announcement of the Division of History, Economics, and Public Law*, which may be obtained by applying to the Secretary of the University. Under the auspices of the Academy of Political Science, to which advanced students are eligible as members, opportunities are given for the discussion of questions of interest as presented in papers by specialists.

The department employs in its work the best French and German historical maps and one of the four largest relief globes ever made.

### Hospital Economics

Two courses in Hospital Economics are offered under the auspices of Teachers College. For details see the *Announcement of Teachers College* and the special *Hospital Economics Announcement*, which will be sent, without charge, upon application to the Secretary of the University.

See also Botany and Zoölogy.

### Latin

(Including Roman Archæology and Epigraphy)

HARRY THURSTON PECK, Ph.D., L.H.D., LL.D.....	<i>Anthon Professor</i>
JAMES C. EGBERT, Ph.D.....	<i>Professor</i>
MORTIMER LAMSON EARLE, Ph.D. . .	<i>Professor of Classical Philology in Barnard College</i>
GONZALEZ LODGE, Ph.D., LL.D.....	<i>Professor of Greek and Latin in Teachers College</i>
NELSON G. MCCREA, Ph.D.....	<i>Professor</i>
CHARLES KNAPP, Ph.D.....	<i>Adjunct Professor of Classical Philology in Barnard College</i>
GEORGE N. OLCOTT, Ph.D.....	<i>Adjunct Professor</i>
GERTRUDE MARY HIRST, Ph.D. ....	<i>Tutor in Classical Philology in Barnard College</i>
STEPHEN A. HURLBUT, A.M. ....	<i>Lecturer in Classical Philology in Barnard College</i>
DINO BIGONGIARI, A.B. ....	<i>Assistant</i>

Courses **X** and **Y** are required in the freshman and sophomore years, respectively, of candidates who enter without Latin.

Course **A** or Course **B** is required of candidates for the degree of A.B., and is pre-requisite to 1 and 2. Similarly 1 or 2 (or an equivalent) is pre-requisite to 3 and 4, and one of the latter to any more advanced work.

Courses, 1, 2, 3, 4, 5, 6, 7, 9, 10, 14, 15, 16, 17, 18, 19, 20, 21, 22, 27, 28, 29, and 32 may be counted towards the degree of A.B.

Courses X, Y, A, B, 1, 2, 3, 4, and 7 are closed to women.

Courses 5, 6, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 32, 33 are open to women on the same terms as to men.

Courses 3, 4, 5, 6, 7, 10, 16, 17, 18, 19, 20, 21, 22, 27, 28, 29, 32, and the Proseminar are open to seniors in Columbia College and to University students.

Courses 11, 12, 23, 24, 25, 26, 30, 33, 34, and the Seminar are open to advanced students only. The Seminar is required of candidates for Ph.D. who take Latin as their major subject.

Courses 9, 21, 27, 28, 32 are open to auditors.

Courses 2, 4, 6, 9, 10, 11, 14, 15, 16, 17, 18, 19, 23, 28, 29, 30, 34 are not given in 1904-05

*For a detailed statement of the courses in Latin, consult the announcement of the Division of Classical Philology for 1904-06.*

### Courses

**X**—Elementary course. Grammar, prose composition, Cæsar, Cicero, and Phædrus. 5 hours. Professor OLCOTT

**Y**—Second elementary course. Cicero, Vergil, and sight-reading; grammar, composition, and prosody. 3 hours. Mr. BIGONGIARI

**A**—First half-year: Cicero: *De Senectute*, and Terence: *Phormio*; prose composition. Second half-year: *Odes* and *Epodes* of Horace; prose composition. 3 hours. Professors EGBERT and McCREA, and Mr. BIGONGIARI

**B**—Readings in prose and verse illustrative of Roman public and private life; prose composition. 3 hours. Professor OLCOTT

**1**—Tacitus: *The Agricola* and *Annals* (Book I). Horace: *Satires*. 3 hours. Professor OLCOTT

**[2**—Horace: *Epistles*; the *Letters* of Cicero; sight-reading. 2 hours. Professor McCREA]

**3**—Juvenal and Martial. 3 hours. Professor EGBERT

**[4**—Terence: *Andria* and *Adelphoe*. Plautus: *Amphitruo* and *Mostellaria*. 2 hours. Professor McCREA]

**5**—Roman epigraphy (introductory course). 2 hours. Professor EGBERT

**[6**—Rapid reading of Horace and Ovid. 2 hours. Professor PECK]

**7**—Terence: *Andria* and *Heautontimorumenos*. 2 hours. Professor PECK

**[9**—Lectures on the history of Greek and Roman prose fiction. 2 hours. Professor PECK]

[10—Private life of the Romans. Lectures and readings. 2 hours. Professor McCREA]

[11—Roman lyric poetry. 3 hours. Professor McCREA]

12—Roman epigraphy (advanced course). 2 hours. Professor EGBERT

[14—Roman history. Tacitus, *Annals* XI–XVI. 3 hours. Professor EGBERT]

[15—Lectures on the sources of Roman history. 2 hours. Professor EGBERT]

[16—Lucretius (I–III and V). 2 hours. Professor McCREA]

[17—Selections from Apuleius (*The Asinus Aureus*). 2 hours. Professor PECK]

[18—Roman satire in its historical development. 3 hours. Professor KNAPP]

[19—Roman oratory: Cicero's *Verrine Orations*. 3 hours. Professor McCREA]

20—Roman oratory. Cicero: *De Oratore*, *Pro Milone*, *Philippica II.*, *Pro Cluentio*. 3 hours. Professor McCREA

21—Introduction to the study of Roman numismatics. 1 hour. Professor OLCOTT

22—Latin prose composition (advanced course). 1 hour, to count as 2 hours. Professor McCREA

[23—The *Cena Trimalchionis* of Petronius. 2 hours. Professor PECK]

24—Roman epic poetry. 3 hours. Professor KNAPP

25—Roman philosophy. Lectures, with a careful reading of Cicero's *De Officiis* and *Tusculanæ*. 3 hours. Professor PECK

26—Roman archæology. Lectures. 2 hours, first half-year. Professor EGBERT

27—Latin literature. Period of the Empire. 2 hours. Professor PECK

[28—The history of classical philology. Lectures. 2 hours. Professor PECK]

[29—Roman tragedy. The Fragments and Seneca. 3 hours. Professor KNAPP]

[30—The Italic dialects—Umbrian, Osco-Sabellian, Faliscan. 1 hour. Professor OLCOTT]

32—The topography and monuments of ancient Rome. 2 hours. Professor OLCOTT

33—The topography and monuments of ancient Rome (Imperial period). 2 hours. Professor OLCOTT

Pre-requisite: Course 32



[34—Latin versification. Theory and practice. 1 hour. Professor PECK]

### Classical Proseminar

Lectures on the principles and methods of classical study, with Greek and Latin bibliography. 2 hours. Professors PECK and PERRY

### Classical Seminar

Latin Section: Lucretius. One session weekly throughout the year. Professor McCREA

Attendance is obligatory upon candidates for the degree of Doctor of Philosophy, and is strongly recommended to those for the master's degree whose major subject lies in this department.

### Courses in Barnard College

A—First half-year: Livy, XXIII–XXIV.; prose composition. Second half-year: Horace, *Odes*; prose composition. 3 hours. Dr. HIRST and Professor KNAPP

B—First half-year: Cicero, *De Senectute* and *De Amicitia*; prose composition. Second half-year: Horace, *Odes*; prose composition. 3 hours. Dr. HIRST and Professor KNAPP

1—First half-year: Horace, *Satires* and *Epistles*. Second half-year: Tacitus, *Annals* I–IV. 3 hours. Professor EARLE and Dr. HIRST

2—First half-year: Catullus and Tibullus. Second half-year: *Letters* of Cicero. 2 hours. Mr. HURLBUT

3—First half-year: Cicero, *Tusculanæ*. Second half-year: Lucretius (selections). 3 hours. Professor McCREA

4—First half-year: Terence, *Andria* and *Phormio*. Second half-year: Plautus, *Captivi* and *Mostellaria*. 3 hours. Professor KNAPP

22—Advanced Latin prose composition. 1 hour, to count as 2 hours. Professor KNAPP

23—Latin themes. 1 hour, to count as 2 hours. Professor EARLE

34—First half-year: Suetonius. Second half-year: Juvenal. 3 hours. Professor KNAPP and Dr. HIRST

35—First half-year: Seneca's plays. Second half-year: Vergil, *Georgics*. 2 hours. Professor KNAPP and Dr. HIRST

### Courses in Teachers College

Education 82—Theory and practice of teaching Latin in secondary schools. Lectures, reports, and practical work. 3 hours. Professor LODGE

Education 142—Practicum in Latin—Cæsar and Vergil. 2 hours. Professor LODGE

Latin 51—History of Latin syntax. Lectures and reports. 2 hours. Professor LODGE

## LAW

The courses offered in Law are here indicated. For full information as to the course leading to the degree of Bachelor of Laws consult the statement concerning the School of Law.

## Municipal or Private Law

GEORGE W. KIRCHWEY, A.B.....	<i>Kent Professor</i>
FRANCIS M. BURDICK, LL.D.....	<i>Dwight Professor</i>
GEORGE F. CANFIELD, A.M., LL.B.....	<i>Professor</i>
HENRY S. REDFIELD, A.M., LL.D.....	<i>Professor</i>
CHARLES T. TERRY, A.B., LL.B.....	<i>Professor</i>
HARLAN F. STONE, A.M., LL.B.....	<i>Adjunct Professor</i>
JAMES B. SCOTT, A.M., J.U.D.....	<i>Professor</i>
ALFRED HAYES, Jr., A.M., LL.B.....	<i>Tutor</i>
JACKSON E. REYNOLDS, A.B., LL.B.....	<i>Lecturer</i>
THADDEUS D. KENNESON, A.M., LL.B.....	<i>Lecturer</i>

Courses 1 to 7, inclusive, constitute the work of the first year in the Law School and are open to seniors in the College. Courses 8 to 17, inclusive are open to students who have taken the work of the first year in Law. Courses 18 to 30, inclusive, are open to students who have taken the work of the first and second years in Law.

## Courses

- 1—Contracts. 4 hours. Professor TERRY
- 2—Criminal law. 3 hours, first half-year. Professor SCOTT
- 3—Domestic Relations. 2 hours, second half-year. Professor SCOTT
- 4—Equity I. 2 hours, second half-year. Professor STONE
- 5—Pleading and practice I. 2 hours. Professor REDFIELD
- 6—Real and personal property I. 2 hours. Professor KIRCHWEY
- 7—Torts. 2 hours. Professor BURDICK
- 8—Admiralty. 2 hours, second half-year. Professor SCOTT
- 9—Agency. 2 hours. Mr. REYNOLDS
- 10—Bailments and carriers. 2 hours. Mr. REYNOLDS
- 11—Trusts. 2 hours. Professor STONE
- 12—Insurance. 2 hours, first half-year. Professor BURDICK
- 13—Negotiable paper. 2 hours. Professor CANFIELD
- 14—Pleading and practice II. 2 hours. Professor REDFIELD
- 15—Quasi-contracts. 3 hours, first half-year. Professor SCOTT
- 16—Real and personal property II. 2 hours. Professor KIRCHWEY
- 17—Sales of personal property. 2 hours. Professor BURDICK

- 18—Bankruptcy and Insolvency. 2 hours, second half-year. Professor BURDICK
- 19—Conflicts of laws. 1 hour. Professor J. B. MOORE
- 20—Corporations. 2 hours. Professor CANFIELD
- 21—Damages. 2 hours, first half-year. Mr. HAYES
- 22—Equity III. 2 hours. Professor STONE
- 23—Evidence. 2 hours. Mr. KENNESON
- 24—Mortgages. 2 hours. Professor SCOTT
- 25—Partnership. 2 hours. Professor BURDICK
- 26—Pleading and practice III. 2 hours, first half-year. Professor REDFIELD
- 27—Real and personal property III. 2 hours. Professor KIRCHWEY
- 28—Suretyship. 2 hours, second half-year. Professor SCOTT
- 29—Trusts and perpetuities. 2 hours, second half-year. Professor CANFIELD
- 30—Wills and administration. 2 hours. Professor REDFIELD

### Public Law and Jurisprudence

JOHN WILLIAM BURGESS, Ph.D., LL.D.....*Ruggles Professor*  
 MUNROE SMITH, J.U.D., LL.D.....*Professor*  
 FRANK JOHNSON GOODNOW, LL.D.....*Eaton Professor*  
 JOHN BASSETT MOORE, LL.D.....*Hamilton Fish Professor*

The courses in this department fall into two divisions: public law and jurisprudence. The purpose of the courses in public law is to give a complete general view of international, constitutional, and administrative law. They serve primarily to supplement the courses in the Departments of History and Economics, and to give with them a complete system of political science. In the second place, they supplement the courses offered by the Faculty of the School of Law, constituting with these a well-rounded legal curriculum. The courses in international, constitutional, and administrative law are also recommended to journalists, students of philosophy and theology, and in general to all who desire to understand the organization and working of governmental systems. The courses on private rights under the Constitution of the United States, on the law of taxation, on the law of municipal corporations, and on conflict of laws are more professional in their character, and are chiefly intended for law students.

The courses in Roman law and comparative jurisprudence, while constituting an integral portion of a complete legal education, will be found useful to all those who desire a general comprehension of the principles of private law rather than a professional training in its details. The introductory course upon the Roman law (21) and that upon European legal history (23) are especially recommended to students of history, economics, and philosophy.

## Courses in Public Law

### *A—Constitutional Law*

1—Comparative constitutional law of the principal modern states—Lectures. 2 hours. Professor BURGESS

3—Private rights and immunities under the Constitution of the United States—Discussion of cases. 2 hours. Professor BURGESS

4—American constitutional law in its historical development—Lectures. 2 hours. (Identical with History 31.) Professor BURGESS

5—Advanced seminar in constitutional law—Investigation and discussion. 1 hour. Professor BURGESS

The courses in the constitutional history of Europe and England (*cf.* courses in history) are regarded as a necessary introduction to the above courses in constitutional law.

### *B—International Law*

6—History of diplomacy—Lectures. 2 hours, first half-year. Professor MOORE

7—History of American diplomacy—Lectures. 2 hours, second half-year. Professor MOORE

8—International law—Lectures. 2 hours. Professor MOORE

10—Seminar in international law. 2 hours. Professor MOORE

### *C—Administrative Law*

15—History and principles of colonial administration—Lectures. 2 hours, first half-year. Professor GOODNOW

16a—Administrative law of the United States and the principal European states—Lectures. 2 hours, first half-year. Professor GOODNOW

16b—Law of officers (extraordinary legal remedies). 2 hours, second half-year. Professor GOODNOW

17—Municipal science and administration—Lectures. 2 hours, second half-year. Professor GOODNOW

18—Law of taxation—Lectures and discussion of cases. 2 hours, second half-year. Professor GOODNOW

19—Law of municipal corporations—Lectures and discussion of cases. 2 hours, first half-year. Professor GOODNOW

20—Seminar in administrative law. 1 hour. Professor GOODNOW

### Courses in Roman Law and Comparative Jurisprudence

21—Roman law I—History and institutes of Roman law: Family, things, obligations—Lectures and assigned reading. 2 hours, first half-year. Professor MUNROE SMITH

22—Roman law II—Institutes of Roman law: succession; selected cases from the *Corpus Juris Civilis*, principally in contracts—Lectures, assigned reading, and discussion. 2 hours, second half-year. Professor MUNROE SMITH



[23—History of European law (early German law; Frankish law; feudalism; the canon law; the law merchant; the reception of the Roman civil law; the modern civil codes)—Lectures. 2 hours. Professor MUNROE SMITH

*Not given in 1904-05; given in 1905-06]*

24—Modern civil law of western Europe: Introduction to the private law of France, Italy, Spain, and Germany.—Lectures. 2 hours. Professor MUNROE SMITH

25—Conflict of laws—Lectures and discussion of cases. 1 hour. Professor MOORE

29—Seminar in legal history and comparative legislation. 1 hour. Professor MUNROE SMITH

30—Advanced Seminar in comparative jurisprudence. 1 hour. Professor MUNROE SMITH

### Manual Training

Fourteen courses in Manual Training are offered under the auspices of Teachers College. For details see the *Announcement of Teachers College* and the special circular of the department, which will be sent, without charge, upon application to the Secretary of the University.

### Materia Medica

(See page 162)

### Mathematics

J. HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D., *Professor and Head of Department*

THOMAS SCOTT FISKE, Ph.D.....*Professor*

FRANK NELSON COLE, Ph.D.....*Professor*

DAVID EUGENE SMITH, Ph.D.....*Professor*

CASSIUS JACKSON KEYSER, Ph.D.....*Adrian Professor*

CHARLES EARLE BIKLÉ, A.M.....*Adjunct Professor*

JAMES MACLAY, Ph.D.....*Adjunct Professor*

HENRY BEDINGER MITCHELL, E.E., A.M.....*Tutor*

EDWARD KASNER, Ph.D.....*Tutor*

GEORGE HERBERT LING, Ph.D.....*Tutor*

WILLIAM FINDLAY, Ph.D.....*Tutor*

CLIFFORD GRAY, A.M.....*Tutor*

EDWARD ALFRED HOOK, M.S., A.M.....*Tutor*

JOHN AUGUST SWENSON, A.B.....*Assistant*

CAMILLE AUGUSTE TOUSSAINT, A.M.....*Assistant*

Course A or its equivalent is prescribed for the degree of A.B. Courses 3a, 3b, 5, 6, 8, 9, 10, 11, 151 (given in Teachers College), are open to properly qualified students of Columbia College. Courses 3a, 3b, and 5 are prescribed for first-year students in the Schools of Applied Science, and Course 6 for second-year students.

Courses 151 and 101-116 may be counted toward the degrees of A.M. and Ph.D., and are open to men and women.

For the summer courses in Mathematics, consult the *Announcement of the Summer Session*, issued in February of each year.

### Courses

**A**—Geometry, algebra, and trigonometry—Volumetric and spherical geometry; algebra, including the arithmetical and geometrical progressions, the elementary treatment of permutations and combinations, and the elementary principles of logarithms; plane trigonometry, including the use of tables of logarithms, the solution of plane triangles, the properties and relations of the trigonometric functions, and the deduction of important analytical formulæ. 3 hours. Professor MACLAY, Dr. LING, Mr. GRAY, and Mr. HOOK

**3b**—Algebra—The general theory of equations. 2 hours, first half-year. Professor KEYSER, Mr. MITCHELL, Dr. LING, Mr. GRAY, and Mr. HOOK

**3a**—Trigonometry—Spherical trigonometry with applications. 2 hours, second half-year. Professor KEYSER, Mr. MITCHELL, Dr. LING, Mr. GRAY, and Mr. HOOK

**5**—Analytical geometry. 3 hours. Professor KEYSER, Mr. MITCHELL, Dr. LING, Mr. GRAY, and Mr. HOOK

**6**—Differential and integral calculus. 3 hours. Professors VAN-AMRINGE, FISKE, MACLAY, and KEYSER

**8**—Projective geometry. 3 hours, first half-year. Dr. LING

**9**—Higher algebra. 3 hours, second half-year. Dr. LING

**10**—Solid analytical geometry. 3 hours, first half-year. Mr. MITCHELL

**11**—Elementary differential equations. 3 hours, second half-year. Mr. MITCHELL

**151**—History of mathematics.<sup>1</sup> 2 hours. Professor SMITH

**101**—Advanced calculus—Introduction to the theory of functions of a real variable. 3 hours. Professor FISKE

**103**—Introduction to the theory of functions. 3 hours. Professor COLE

**108**—Functions defined by linear differential equations. 3 hours. Professor FISKE

**109**—Theory of invariants. 3 hours. Professor COLE

**110**—The general theory of assemblages. 3 hours. Professor KEYSER

**113**—The application of the calculus to the theory of surfaces. 3 hours. Professor MACLAY

<sup>1</sup> Other courses in the history and teaching of mathematics are also offered in Teachers College.

114—Differential equations and continuous groups. 2 hours. Dr. KASNER

115—Theory of numbers. 3 hours, first half-year. Dr. LING

116—Theory of probability. 3 hours, second half-year. Dr. LING

#### Courses Given Separately at Barnard College

Course A is given by Dr. KASNER and Dr. FINDLAY. Courses in Analytical Geometry (No. 1, 3 hours, first half-year), in Elementary Calculus (No. 2, 3 hours, second half-year), in the Fundamental Concepts of Modern Mathematics (No. 9, 3 hours), by Dr. KASNER

Courses in the Theory of Equations (No. 3, 3 hours), and in Projective Geometry (No. 5, 3 hours), Advanced Analytical Geometry (No. 8, 3 hours), by Dr. FINDLAY; and in Calculus (No. 6, 3 hours), by Professor COLE

#### Equipment

In the equipment of the Department of Mathematics is a large number of models, charts, and instruments. An elaborate set of models illustrates the metric system of weights and measures. A set of about fifty models of elementary solid and spherical geometry is intended to exemplify the demonstrations contained in Davies' *Legendre*. These are made of cherry wood with markings in inlaid ebony, and are of unusually large size. There are several similar models representing the different plane sections of the cone. A series of wooden models, constructed by Schroeder of Darmstadt, illustrates elementary solid geometry, and contains, in addition, examples of all the different forms of the surfaces of the second order. There is a series of models of descriptive geometry, also constructed by Schroeder. The horizontal and vertical projections are traced upon boards solidly joined together at right angles and of convenient size to allow in general the representation of three different models, or of three different views of the same model. The form and construction suggest a division of these models into two classes: (1) the representation in metal of lines and surfaces, adjusted upon axes, the projection of several of their positions being given; (2) the representation of solid bodies in hardwood, including the exhibition of their plane sections in various directions and the intersections of different surfaces and solids.

A collection of models, which was presented to the department by Dr. Seth Low, having been purchased by him from the German University Exhibit at the Chicago Exposition in 1893, illustrates analysis situs, theory of functions of a complex variable, surfaces of higher order, their singularities and curvature, and line-geometry.

A series of charts illustrates the theory of plane algebraic curves, especially those of the fourth order, the resolution of higher plane singularities into equivalent elementary singularities, the expression of functions by means of infinite series and infinite products, and conormal representation by means of algebraic and elliptic functions.

The collection of mathematical works in the Library of the University is especially rich in treatises and in sets of collected works of mathematicians. All the mathematical journals of importance are regularly received, and the Library possesses complete sets of most of them.

### Mechanical Engineering

FREDERICK R. HUTTON, E.M., Ph.D., Sc.D.....	<i>Professor</i>
RALPH E. MAYER, C.E.....	<i>Adjunct Professor</i>
IRA H. WOOLSON, E.M.....	<i>Adjunct Professor</i>
AMASA TROWBRIDGE, Ph.B.....	<i>Adjunct Professor</i>
CHARLES E. LUCKE, M.S., Ph.D.....	<i>Instructor</i>
SAMUEL O. MILLER, C.E.....	<i>Tutor</i>
THOMAS H. HARRINGTON, C.E.....	<i>Tutor</i>
SAMUEL T. LAUBACH, Mech.E.....	<i>Tutor</i>
JULIAN C. SMALLWOOD, Mech.E.....	<i>Assistant</i>
H. HAROLD HIGBIE, E.E.....	<i>Assistant</i>
CLIFFORD T. SWART, Mech.E.....	<i>Assistant</i>
CHARLES RUSSELL RICHARDS, B.S....	<i>Professor of Manual Training in Teachers College</i>
CHARLES P. BENNS, E.M.....	<i>Instructor in Teachers College</i>
CHARLES C. SLEFFEL.....	<i>Instructor in Teachers College</i>
CHARLES W. WEICK, B.S.....	<i>Instructor in Teachers College</i>

Special students are admitted to the courses for which previous training may have fitted them. All courses intended for students in the Schools of Applied Science may be pursued by graduates, the instruction for such persons being carried farther in specialization than the time available permits to candidates for the first degree. The instruction for such advanced students will be by prescribed reading, by problems assigned, and by work in the mechanical laboratories under individual instruction. Courses 10, 11, 12, and 13 are pre-requisites for all graduate courses. Experimental investigation is a special feature of such work in Courses 10 to 17, 19, 24, and 25.

*For fuller information regarding the topics covered in these courses see the Announcement of the Courses in Mechanical Engineering.*

### Courses

1—Elementary mechanical drawing—Use of instruments, elementary projections. 2 hours a week lectures, and 5 hours a week in the first year; 2 hours lectures, and 5 hours draughting-room in the second year. Professor MAYER, Mr. HARRINGTON, and Mr. MILLER

2—Specialized engineering drawing—Working and isometric drawing of machinery, furnaces, and structural work. 2 hours a week lectures, second year; 5 hours a week draughting-room. Professor MAYER, Mr. HARRINGTON, and Mr. MILLER



3 and 4—First-year shop-work—Carpentry, framing, and joinery. 2 afternoons a week shop practice in shops of Teachers College. Mr. WEICK

5—First-summer shop-work—Pattern-making and foundry-work. 100 hours in 3 weeks in June. Mr. WEICK

6—Second-year shop-work—Forging. 1 hour conference, and four laboratory periods first half-year, and two periods for second half-year. Mr. SLEFFEL

7—Second-year shop-work—Bench-work. Machine-tool work. 1 hour a week conference for instruction, and two laboratory periods, second half-year. Mr. BENNS

8—Second-summer shop-work—Machine-tool work continued. 100 hours in 3 weeks in June. Mr. BENNS

9—Third-year shop-work—Machine-tool work, with special appliances for rapid and economical production. 2 afternoons per week, first half-year. Mr. BENNS

10—Properties of materials—Properties of constructive materials, tension, compression, transverse, and abrasion tests; protecting metal work; bearing metal alloys. 2 hours, first half-year. Professor WOOLSON

11—Engineering of power plants—Steam-engines and their mechanisms. 1 hour, second half-year. Professor HUTTON

12—The steam-engine and its accessories—The power plant continued. 2 hours, first half-year. Professor HUTTON

13—The steam-boiler and its accessories—The power plant concluded. 2 hours, second half-year. Professor HUTTON

14—Experimental mechanical engineering—Laboratory methods for determination of data. Calibration of instruments. Solution of problems. 1 hour. Dr. LUCKE

15—Experimental mechanical engineering laboratory—Calibration of thermometers, pressure gauges, indicators, planimeters; weirs, nozzles, meters; dynamometers and power scales. Various measurements. Determination of data by tests on apparatus. 1 afternoon. Dr. LUCKE and assistants

16—Testing materials of engineering—Tensile, transverse, compressive, and other resistances of structural materials. Afternoon hours. Professor WOOLSON

17—Experimental mechanical engineering—Continuation of Course 14. Solution of problems on hypothetical data relating to tests of Course 24. 1 hour lecture, first term fourth year. Dr. LUCKE

18—Machinery and mechanism—Conversion of motion, teeth of wheels, general mechanism. 2 hours. Professor WOOLSON

19—Heat and its applications. 3 hours. Professor HUTTON

20—Motors other than steam. 1 hour, second half-year. Professor HUTTON

21—Dynamics of motors—Dynamometers, governors, regulators. 1 hour, second half-year. Professor HUTTON

22—Engineering design and drawing—Graphic statics of forces, moments, framed structures and mechanism. 1 hour, first half-year. 2 hours, second half-year; afternoon periods in draughting-room. Mr. HARRINGTON

23—Valve-gearing for engines. 1 hour, first half-year, and afternoon work in draughting-room. Mr. LAUBACH

24—Experimental mechanical engineering laboratory—Continuation of Course 15. 1 afternoon, first half-year. Dr. LUCKE and Assistants

25—Research Seminar—Methods of approaching new problems. Selection of suitable experiments, preparation of apparatus, and deductions from observations. Theses and current professional problems. 1 hour, fourth year. Conference at convenience. Dr. LUCKE

26—Machine design—Design of machine-tools, automatic machinery, cranes, and hydraulic machinery. 1 afternoon, first half-year; 4 afternoons, second half-year. Professor TROWBRIDGE

27—Pumps, pumping machinery, and hydraulics—Flow of water; water motors and turbines; action and design of pumps. 3 hours, second half-year. Mr. LAUBACH

28—Steam-engine design—The theory of crank-effort, fly-wheels, governors, balancing, and stresses in built-up framing; design of engine-details. 2 hours, with afternoon work in drawing-room. Mr. LAUBACH

29—Shop and factory organization and management. 1 hour, second half-year. Professor HUTTON and Mr. BENNS

30—Work-shop economics and specifications. 1 hour for a year and a half. Professor HUTTON

31—Marine-engine design—Theory and practice. Engine details. Marine-boiler design. 2 hours for Alternative M; 1 hour for Alternative MA. Professor TROWBRIDGE

32—Naval architecture—Areas and volumes; trim; statical stability; curves of stability; weights and centre of gravity. Calculations for a given ship. 2 hours. Professor TROWBRIDGE

33—Ship-building—Materials; types of vessels; lines and models. General arrangement, design. Initial cost and economy of operation, with regard to speed and carrying capacity. 1 afternoon for Alternative M; 2 afternoons for Alternative MA. Professor TROWBRIDGE

34—Marine auxiliaries, appliances, and materials. 2 hours. Professor TROWBRIDGE

35—Vacation class in mechanical engineering—During the latter half of the school year visits are made to shops, factories, iron and steel works, and pumping stations, for the study of practice in these

lines. The instruction is conducted by Professor HUTTON, Professor TROWBRIDGE, and Dr. LUCKE

36—Summer work between first and second years—Memoir or drawings.

37—Summer work between second and third years—Memoir or drawings.

38—Summer work between third and fourth years—Memoir, test, report, or special laboratory work as may be directed in each case by the Professor of Mechanical Engineering, having reference to the proposed specialization of the final year in power-house, marine, or locomotive directions. Professors HUTTON, TROWBRIDGE, and Dr. LUCKE

39—Graduation thesis.

40—Special problems and original investigations in advanced mechanical engineering, with conferences, laboratory work, and design as required. Major subject for degree of Ph.D. Pre-requisites: all courses offered in the Department of Mechanical Engineering.

41—Mechanics of Materials—Resistance and elasticity of materials; simple stresses and deformations; combined stresses. 4 hours, first half-year. Mr. LAUBACH

42—Propulsion of ships. 2 hours, first half-year. Professor TROWBRIDGE

43—Locomotive engineering and design. 3 hours, first half-year. Professor HUTTON

44—Locomotive accessories.

45—Locomotive specifications, manufacture, and accidents.

46—Locomotive testing and management.

47—Locomotive history and evolution.

48—Traction engines and trucks and motor vehicles.

44 to 48 form one course of 3 hours per week. Professor HUTTON

49—Mould-loft practice—Afternoon work. Professor TROWBRIDGE and assistants

50—Principles and design of the gas engine. 3 hours, first half-year; 2 hours, second half-year. Dr. LUCKE

51—Advanced laboratory course in the gas engine. Dr. LUCKE

52—Power plant layout and specification. 2 hours and 1 afternoon, first half-year, and 1 hour and 1 afternoon, second half-year. Dr. LUCKE

53—Mechanics of the steam turbine—Open only to graduate students. Dr. LUCKE

54—Balance shaking and vibration in machines. Open only to graduate students. Dr. LUCKE

55—Ship calculations—A series of calculations to accompany the course in naval architecture. 1 hour for Alternatives MA. Professor TROWBRIDGE

56—Marine-engineering development—Analytical and experimental investigation of problems in propulsion. Open only to graduate students. Professor TROWBRIDGE

57—Ship design—Investigation of building rules and such navigation laws as apply to ship-building. Open only to graduate students. Professor TROWBRIDGE

58—Marine Seminar—Discussion of professional problems and technical literature. 1 hour for Alternatives M and MA. Professor TROWBRIDGE

103, 104—First-year shop-work—Short course in wood-working for Electrical and Civil Engineers. 1 afternoon per week part of the year. Mr. WEICK

106, 107—Second-year shop-work—Short course in forging and machine-shop for Civil and Electrical Engineers. 1 hour lecture, first half-year, 1 afternoon per week part of the year. Mr. SLEFFEL and Mr. BENNS

110—Properties of materials—First half: Sources of timber supply, inspection, practical study of planks, logs, and trees; causes of decay and processes of preservation; fireproofing, etc. 2 hours per week, second half-year. Professor WOOLSON

114—Experimental mechanical engineering—Short course for Electrical, Civil, and Mining Engineers, made of selections from Mechanical Engineering 14. Third year. Dr. LUCKE

115—Mechanical engineering laboratory—Short course for Electrical, Civil, and Mining Engineers, made of selections from Mechanical Engineering 15. Third year. Dr. LUCKE

117—Continuation of 114. Fourth year. Dr. LUCKE

119—Heat and heat engines. 1 hour a week, lectures and recitations, third year. For Mechanical Engineers only. Dr. LUCKE

124—Continuation of 115. Fourth year. Dr. LUCKE

### Equipment

The Department of Mechanical Engineering both has its own special equipment and also enjoys the admirable and complete equipment of other departments for the use of its students.

THE WORKSHOPS are located in the Macy Manual Arts building of Teachers College, 120th Street. The wood-working course is planned



to lead up to pattern-making and foundry-work. The foundry division has facilities for bench and floor moulding, and for limited work with sweeps. The second division includes the shops for metal-working.

THE MECHANICAL LABORATORIES, properly so called, are located partly in the great basement annex area north of Engineering and beneath the esplanade in front of Havemeyer, and partly in Engineering. Their area exceeds 9000 square feet, giving a length in one span of over 210 feet and a width of 32 and 35 feet. These laboratories are equipped for testing in all the branches specifically belonging to mechanical engineering, as well as for research in this department.

For description in detail of the equipment of these laboratories, reference may be made to the *Announcement of the Courses in Mechanical Engineering*, which may be had upon application to the Secretary of the University.

THE DRAUGHTING ROOMS on the top floor of Engineering are splendidly lighted and of very large extent, and are fitted not only with the best forms of drawing tables and furniture, but also with extensive collections of patterns, models, and illustrative drawings, blue prints, photographs, and prints, which are useful both as copies and for training in design.

LECTURE- AND CLASS-ROOM ILLUSTRATION is effected by extensive use of material from the collections of models, specimens, and samples in the museum, and of photographs exhibited as lantern-slides by projection in an illuminated room, by drawings and blue prints, and by electrotype prints and wall diagrams.

### Summer and Vacation Work

To derive the advantages possible from continuous work in the shop, two summer classes are maintained, each covering about one hundred working hours, beginning June 1. If necessary another similar term will be arranged for September. These form parts of the regular shop-work course of Mechanical Engineering, but are also intended to permit students from other schools, where these facilities are lacking, to comply with the requirements of the regular course by extra application and overtime work.

During the session, and on occasional holidays, students are given opportunities to visit engineering works, machine shops, factories, and industrial establishments in the city and its environs. More elaborate excursions are arranged for the advanced students to special places or districts, under the supervision of the professors or instructors. The summer between third and fourth years is intended to be preparatory to fourth-year purely professional work and generally consists of a technical report of some plant, machine, or process examined by the student.

### Mechanics

ROBERT SIMPSON WOODWARD, C.E., Ph.D., LL.D.....	Professor
MICHAEL IDVORSKY PUPIN, Ph.D., Sc.D.....	Professor
JOSEPH CLEMENT PFISTER, A.M.....	Instructor
ALBERT P. WILLS, Ph.D.....	Instructor
RICHARD F. DEIMEL A.M.....	Assistant

Courses 3 and 10-18 are open to women on the same terms as to men.

*For fuller information as to the scope of the courses in this department, the conditions under which certain of them may be counted toward the higher degrees, the pre-requisites for each course, and the like, consult the Announcement of the Division of Mathematical and Physical Science, which may be obtained, without charge, from the Secretary of Columbia University.*

### Courses

1—Analytical mechanics. Rankine's *Applied Mechanics* is used as a text for reference. 3 hours. Professor WOODWARD

2—Elementary mechanics. Loney's *Elements of Statics and Dynamics* is used as a text. 2 hours. Mr. PFISTER

3—Theoretical mechanics. 2 hours. Mr. PFISTER

4—Thermodynamics, with special reference to its bearing on the theory of heat engines. 3 hours, second half-year. Dr. WILLS

5—Elementary thermodynamics and hydromechanics. Thermodynamics, 2 hours, first half-year; hydromechanics, 2 hours, second half-year. Mr. PFISTER

6—Theory of dynamo and motor (introductory). 2 hours, first half-year. Dr. WILLS

7—Theory of direct-current dynamo and motor, covering Hopkinson's theory of dynamo and motor designing, and Froelich's method of dynamo and motor testing. 3 hours, second half-year. Professor PUPIN and Dr. WILLS

8—Theory of alternators and transformers. 3 hours, first half-year. Professor PUPIN

9—Theory of variable currents. 3 hours, second half-year. Professor PUPIN

10—Advanced theoretical mechanics. Lectures 2 hours. Professor WOODWARD

11—Theory of the potential function. Lectures, 2 hours. Professor WOODWARD and Dr. WILLS

12—Geodynamics. Lectures, 2 hours. Professor WOODWARD

13—Mathematical theory of elasticity. Lectures, 2 hours. Professor WOODWARD

14—Maxwell's theory of electricity and magnetism. Lectures, 2 hours. Professor PUPIN

14a—Theory of Bessel's functions and spherical harmonies. Lectures, 1 hour. Professor PUPIN

15—Electro-magnetic theory of light. Lectures, 3 hours, first half-year. Professor PUPIN

16—Advanced thermodynamics, including its application to thermo-electricity and thermomagnetism, physical chemistry, and caloric engines. Lectures, 2 hours. Professor PUPIN

17—Theory of oscillations. 2 hours. Professor PUPIN

18—Theory of the conduction of heat in solids. Lectures, 2 hours. Professor WOODWARD

19—Analytical mechanics, abridged course. 2 hours. Dr. WILLS

20—Thermodynamics, abridged course. 2 hours. Dr. WILLS

21—Elementary mechanics. Loney's *Elements of Statics and Dynamics*. 3 hours, first half-year. Mr. PFISTER

22—Problems in electro-magnetic theory. Lectures, 2 hours. Dr. WILLS

### Metallurgy

HENRY M. HOWE, A.M., B.S. .... *Professor*

BRADLEY STOUGHTON, Ph.B., B.S. .... *Adjunct Professor*

WILLIAM CAMPBELL, Ph.D., M.Sc. .... *Instructor*

MYRICK N. BOLLES, Ph.D. .... *Tutor*

JOHN F. THOMPSON, B.S. .... *Assistant*

Non-resident lecturers for 1903-04: James Douglas, LL.D., President of the Copper Queen Consolidated Mining Company; H. O. Hofman, E.M., Met.E., Ph.D., Professor of Metallurgy, Massachusetts Institute of Technology; Joseph W. Richards, Ph.D., Professor of Metallurgy, Lehigh University; Richard Moldenke, Ph.D., Secretary, American Foundrymen's Association; Edward D. Peters, M.D., Professor of Metallurgy, Harvard University; Joseph Struthers, Ph.D., Assistant Editor, American Institute of Mining Engineers; J. Parke Channing, E.M., President of the Tennessee Copper Company; Chas. Kirchhoff, Editor of *The Iron Age*; George C. Stone, Ph.D., Chief-Engineer of the New Jersey Zinc Company; William Campbell, Ph.D., Barnard Fellow.

The courses of this department are rarely open to special students who are not graduates of some college or scientific school. Great stress is laid on the metallurgical laboratory courses.

Special courses, consisting of personal instruction and original experimental investigation, will be arranged for advanced students according to their individual needs and ability. Some of these investigations will be made at metallurgical works into processes in actual use there, others in the metallurgical and analytical laboratories of

the department. These courses include advanced courses in pyrometry, the microstructure of metals and alloys, the chemistry of roasting processes, etc.

Two courses of three weeks each are given at metallurgical works in studying the operations there carried out. The students are given individual and class instruction and are required to make complete descriptions of the various processes, including sketches of furnaces and apparatus.

*For a fuller description of courses than given below, see the Announcement of the School of Mines.*

The following courses taken together count as a minor for the degree of A.M. or as one-half minor for the degree of Ph.D.:

- (1) 1, 3, 4, 5, and 6a
- (2) 1, 3, and 6
- (3) 4, and 6, with either 1, 2, 3, 5a, or 5b

Courses 1, 4, and 5a are required of third-year students in Metallurgy, Mining, Engineering and Chemistry.

Courses 2, 5b, 6a, are required of fourth-year students in Mining Engineering; 5b, 105b, and 109, of students in Metallurgy, in the fourth year; 6, 101, 104, 105a, in third year; 3 and 103, in the second.

Courses 2, 3, and 5b are required of fourth-year students in Chemistry, and 3 of second-year students in Civil, Mechanical and Electrical Engineering.

### Courses

1—General metallurgy—2 hours lectures for six weeks, second half, third year. Professor STOUGHTON

2—Metallurgy of steel and iron—Shorter course. 3 hours lectures per week, during January. Professor STOUGHTON

3—Metallurgy of iron and steel—Longer course. 2 hours lectures, second half-year. Professor STOUGHTON

4—Metallurgy of copper—2 hours lectures, first half-year. Dr. BOLLES

5a—Metallurgy of lead—2 hours lectures for nine weeks, second half, third year. Dr. CAMPBELL

5b—Metallurgy of silver, gold, zinc, and minor metals. 2 hours lectures for twelve weeks, first half, fourth year. Drs. CAMPBELL and BOLLES

6—Laboratory work—Longer course. 4 afternoons a week, second half-year. All officers

6a—Laboratory work—Shorter course. 10 afternoons, second half-year. All officers

20—Summer course in non-ferrous metallurgy. Required of students in Metallurgy and Mining Engineering between the third and fourth years. Dr. CAMPBELL or Dr. BOLLES and assistants



21—Summer Course in iron and steel. Required of students in Metallurgy between the second and third years and in Mechanical Engineering between the third and fourth years. Professor STOUGHTON and assistants

101—Extension of Metallurgy 1—1 hour conference for six weeks, second half-year. Professor STOUGHTON

103—Extension of Metallurgy 3. 2 hours conference, second half-year. Professor STOUGHTON

104—Extension of Metallurgy 4. 1 hour conference, first half-year. Dr. BOLLES

105a—Extension of Metallurgy 5a. 1 hour conference, for nine weeks, second half-year. Dr. CAMPBELL

105b—Extension of Metallurgy 5b. 1 hour conference, for twelve weeks, first half-year. Drs. CAMPBELL and BOLLES

109—Metallurgy of alloys. 3 hours conference during January. Dr. CAMPBELL

**METALLURGICAL EXCURSIONS**—During the term the students are taken to the metallurgical establishments in the vicinity of the city, embracing iron blast furnaces, and Bessemer, open-hearth, and puddling works, the smelting of lead and copper ores, the Bessemerizing of copper matte, the refining of copper by furnace and electrolytic methods, the desilverizing of base bullion by zinc, and the parting and refining of gold and silver by both electrolytic and acid methods.

### Equipment

**LECTURE DIAGRAMS**—There is an important collection of large lecture diagrams, illustrating the various metallurgical furnaces and appliances, or showing graphically the sequence of operations in metallurgical processes.

In addition the lectures are illustrated, not only by models, but actual demonstrations, as, for instance, in the heat-treatment of metals, in the wet metallurgical processes, in the rolling of metals.

**MODELS AND DRAWINGS**—There is an excellent collection of models of metallurgical apparatus, furnaces, Bessemer converters, roll-trains, etc., and a number of detailed drawings.

**METALLURGICAL COLLECTION**—There is a collection of about 3000 specimens of ores, metals, etc., and the intermediate and final products of the more important metallurgical processes. Suites of specimens of great educational value are added frequently.

**MICROSCOPIC SPECIMENS**—The department is rapidly forming a valuable collection of microscopic sections of metals and alloys, and photomicrographs of them.

**ANALYTICAL LABORATORY**—The department has an analytical laboratory open to the students in Metallurgy.

**METALLURGICAL LABORATORY — 1.** *Instruments of Precision of Metallurgy*—Of these the most important are pyrometers, calorimeters, and microscopes for examining metals and alloys. There are enough Le Chatelier thermo-electric pyrometers to give each student the exclusive use of one throughout his course. In addition there are Le Chatelier pyrometers of great precision, and two with autographic attachments of the Roberts-Austen and another type.

For the microscopic study of metals, many specially adapted microscopes are provided, together with appliances for grinding, polishing, and photomicroscopy. There are also sclerometers, a drop-testing machine, special testing machines for metals, ammeters, etc.

2. *For Analytical Metallurgy*, or the study of the principles and reactions of metallurgy taken singly as distinguished from the several industrial processes each taken as a unit, besides the instruments just enumerated there are many special furnaces heated by electric resistance or gas, gas forges, a small power-driven roll-train, etc.

3. *For Applied Metallurgy*, the laboratory has, besides the common forms, crucible melting furnaces, muffles, etc., and ores, refractory materials, and fluxes, a cupola furnace, an English cupelling furnace, a small reverberatory roasting furnace, a set of lixiviating and precipitating vats, a battery of amalgamating pans, kettles for desilverizing lead, a chlorinating barrel, storage batteries, voltmeters, and ammeters for electrolysis, etc.

There is a large assortment of alloys, and of steels and irons, which give opportunity for an extended range of investigation into their properties.

4. *Advanced Students*—The laboratory offers to advanced students and properly equipped practitioners unusual advantages for investigation with great accuracy the scientific and many of the economic problems of metallurgy.

**METALLURGICAL LIBRARY**—The Metallurgical Department has its own metallurgical library and reading-room, containing about fourteen hundred volumes of metallurgical treatises, text-books, periodicals, etc.

## Mineralogy

ALFRED J. MOSES, E.M., Ph.D.....	Professor
LEA McI. LUQUER, C.E., Ph.D. ....	Adjunct Professor
AUSTIN FLINT ROGERS, A.B., Ph.D.....	Tutor
M. A. LAMME, B.S., A.M. ....	Assistant

Courses 2, 3, 5, 6, and 12 are open to properly qualified students in Columbia College. Course 12 is required of first-year students in Mining Engineering, Metallurgy, and Chemistry; Course 5, of second-year students in Civil Engineering; Course 6, of third-year students in Mining Engineering and Metallurgy; and Course 8, of third-year students in Analytical and Organic Chemistry.

Courses 5, 6, 7, 9, 10, 11, and 12 may be counted toward the degrees of A.M. and Ph.D. Course 7 is especially a minor course for Geologists, Course 9 a minor course for Chemists, and Courses 10 and 11 major courses for Mineralogists. For details see the *Announcement of the Division of Geology, Geography, and Mineralogy*, which will be furnished on application to the Secretary of the University.

Courses 7, 9, 10, and 11 are open to women.

The following courses or their equivalents are pre-requisite: Physics 31 for Courses 2, 3, 12; Chemistry 6 for 3, 12; Course 2 for 8; Course 3 for 7, 9, 10, 11; Course 5 for 6.

### Courses

12—Descriptive and determinative mineralogy — First half-year: Crystallography; blowpipe tests; the silicates and borates. Second half-year: The economic minerals; blowpipe analysis; optical mineralogy. 3 hours lectures and conferences, 2 afternoons laboratory. Professors MOSES and LUQUER, Dr. ROGERS, and Mr. LAMME

2—Crystallography. 2 hours lectures and conferences, first half-year. Professor MOSES

8—Physical crystallography—Short laboratory course. 1 hour lecture, 1 hour laboratory, second half-year. Professor MOSES

3—General mineralogy—Important minerals in systematic order with introductory crystallography. 2 hours lectures, 1 afternoon laboratory. Dr. ROGERS

5—The minerals of building-stones and their economic effect. 2 hours lectures and one afternoon laboratory during first half-year. Professor LUQUER and Dr. ROGERS

6—Optical mineralogy—The study of minerals in rock sections. 2 afternoons laboratory for two months. Professor LUQUER and Dr. ROGERS

7—Optical mineralogy—Longer course. 1 hour lecture, 1 afternoon laboratory. Professor LUQUER

9—Physical crystallography—The characters of crystals; determination of constants; theories of structure. 1 hour lecture and 1 afternoon laboratory. Professor MOSES

10—Physical crystallography—Longer course, including study of the crystals of some group. 12 hours for two years. Professor MOSES

11—Mineralogy—Study of assigned group or species. 12 hours for two years. Professor MOSES

### Equipment

The work of the students in the college courses and in general mineralogy is performed in the lecture room, in the blowpipe laboratory, a large room with conference tables and seats for about 75 men,

and in the adjoining conference-room, in which are the student collections of crystal models and minerals and several thousand unlabelled specimens used in determinative work. The department possesses also about 1200 sections of minerals and rocks, and 1500 crystal models in wood and glass. Students in optical mineralogy use a separate room with north light, and for crystal measurements and monochromatic-light determinations there is provided a large dark-room.

Attached to the department is the Egleston Mineralogical Museum, containing about 30,000 labelled specimens, and including a systematic collection, an economic collection of ores, building materials, and minerals used in chemical industries, a collection illustrating the genesis and alteration of minerals, a collection illustrating the characters of minerals, and small collections of artificial minerals and New York City minerals.

Among the collections of minerals that have been presented to the museum from time to time, the largest is that of Dr. Egleston, consisting of about 5000 specimens. Others that may be mentioned are: the Gillmore collection, made in Paris under the direction of the Abbé Haüy, and presented by the late Gouverneur Kemble of West Point; a collection of Schulsberg (Wis.) stalactites, exhibited at the Sanitary Fair; a fine suite of Russian minerals, presented by the Czar; a collection of American minerals, presented by the late Geo. T. Strong; two of the finest cerussites in the world; the Julien collection of minerals from Chesterfield, Mass.; the collection of Professor How, of King's College, Nova Scotia; and a very valuable collection made by Dr. Egleston in Japan.

In addition, a large number of gifts have been received, and these have been supplemented by careful purchasing and exchanging.

### Mining

HENRY S. MUNROE, E.M., Ph.D., Sc.D.....	<i>Professor</i>
ROBERT PEELE, E.M.....	<i>Professor</i>
EDWARD L. KURTZ, E.M.....	<i>Instructor</i>
JAMES FARLEY McCLELLAND, E.M.....	<i>Instructor</i>

*For a more detailed statement of the scope of the work in Mining the reader is referred to the special Announcement of the School of Mines for 1904-06.*

Courses 1, 2, 3, 7a, and 11 are required in the third year, and 4, 5, 6, 7, 8, 9, 10, 24, and 25 in the fourth year, of candidates for the degree of Engineer of Mines.

Courses 3 and 7a are required in the third year, and 4, 5, and 10 in the fourth year, of candidates for the degree of Metallurgical Engineer.

All the above courses, 1 to 11, 24 and 25, are open to candidates for A.M. and Ph.D. in certain combinations as detailed in Courses 19, 20, 21, 22, and 23.



Courses 12 to 23 are intended as suggestions for lines of advanced study and investigation open to candidates for higher degrees. Courses 12, 13, 14, and 15 may be taken as major or minor subjects for A.M. or Ph.D. Courses 16, 17, 18, 19, 20, 21, and 22 are minors for A.M. Course 23 counts as a major and one minor for A.M.

With the exception of Courses 4, 5, and 7a, the mining courses are progressive, and must be taken in the order required of regular students. Pre-requisites for Course 1 are the entrance requirements in Mathematics, Chemistry, and Physics. In addition, the pre-requisite or parallel courses for Course 3 are: Mineralogy 12, and Geology 2 and 3; for Course 6, Civil Engineering 12 and 17; for Course 7, Mechanics 1 and 21, and Mechanical Engineering 111; for Course 8, Civil Engineering 5, Mechanical Engineering 1 and 2; for Courses 9 and 11, Civil Engineering 15. For Courses 4 and 5 the pre-requisite and parallel courses are Physics 1, Mineralogy 12 or 13, and Mechanics 21. All the undergraduate courses are pre-requisite to Courses 12, 13, 14, 15, 16, 17, and 18.

### Courses

1—Excavation and tunnelling. Excavation of earth and rock; Explosives. Drilling and blasting. Driving and support of railroad and mine tunnels. 3 hours, first half-year. Professor PEELE

2—Boring and shaft-sinking. 3 hours for 3 months, second half-year. Professor PEELE

3—Prospecting, exploration, development, and methods of working. 3 hours, second half-year. Professor MUNROE

4—Ore dressing, gold milling, and the mechanical preparation of coal. 3 hours for 5 months. Professor MUNROE

5—Ore-dressing laboratory. Working tests with simple dressing apparatus. Concentrating machines. Afternoon work for three weeks, second half-year. Professor MUNROE, Mr. KURTZ, and Mr. McCLELLAND

6—Mine engineering. Surface handling and transportation; transshipment and storing of minerals. Drainage. Water supply. Ventilation. Accidents. 2 hours, second half-year. Professor MUNROE

7—Mine plant. Hoisting, drainage, ventilating, and compressed-air plant, machine drills, coal cutters, and underground handling and haulage. 3 hours. Professor PEELE

7a—Mine constructions. Building materials, masonry and timber construction, retaining walls, trestles, and ore-bins. 1 hour, second half-year. Professor PEELE

8—Design of mine plant. Working drawings of specified portions of mine plant, made under supervision and advice in connection with graduating project. 5 afternoons first half-year. Professor PEELE, Mr. KURTZ, and Mr. McCLELLAND

9—Mine surveying. Examination, sampling, and valuation of mines. 1 hour, first half-year. Professor MUNROE

10—Administration, organization, and business management, mine accounts, and cost sheets. 1 hour, first half-year. Professor MUNROE

24—Mining law. 1 hour, first half-year.

25—Graduating thesis or project, on assigned subjects. Professor PEELE

#### Summer Course

11—The summer course of practical mining is held in June and July, in the vacation between the third and fourth years, and lasts six weeks. Professor PEELE, Mr. KURTZ, and Mr. McCLELLAND

The course of instruction includes four weeks' detailed study of the plant and methods of working at some important mine or mines selected for the purpose; one week mine surveying; one week excursion to other mines and mining regions; and one week geological work, surface and underground.

#### Graduate Course

Special courses, consisting of personal instruction, reading, and experimental investigation, will be arranged for advanced students according to their individual needs and ability. These investigations will be made at mines and dressing works, either in connection with the summer school or elsewhere as assigned, with additional work, as required, in the library and in the laboratories of the department. These courses vary in difficulty and in the amount of time necessary, according as the student is a candidate for the degree of A.M. or Ph.D., and according as he pursues Mining as a major or a minor subject. The time required is governed by the rule that a course or courses should occupy about 18 hours a week (outside reading and study included) if taken as a major subject, and about 9 hours a week if taken as a minor subject. The following are suggested:

12—Methods of mining—Critical study of methods used in some mining region, or for a certain class of deposits.

13—Mining plant—Critical study of rock drilling, or coal cutting, or hoisting, or haulage, or ventilating plant at some mine or mines.

14—Deep mining—Study of problems involved.

15—Ore dressing—Critical study of some detail of the ordinary dressing methods.

16—Examination of a coal-washing plant, or an ore-dressing plant—4 to 6 weeks' work in the mill and in the laboratory, with conferences.

17—Examination of a mineral property, or a mine—4 to 6 weeks devoted to field and underground work in the summer school of practical mining, with conferences at convenience of professor.

18—Economic studies in mining—Study of existing conditions affecting the production and cost of some mineral or metal.

19—Mining and ore dressing—Mining 3, 4, and 5. 4 hours, with laboratory work and reading as required.

20—Mining engineering—Mining 3, 6, 7, and 10. 4 hours lectures and reading as required.

21—Design of mine plant—Mining 7, 7a, and 8. 3 hours and 5 afternoons draughting-room work.

22—Design of ore-dressing works—Mining 4, 5, 7a, and 8, with 1 hour conference additional, first half-year. 3 hours and 5 afternoons laboratory and draughting-room work.

23—Mining—1, 2, 3, 4, 5, 6, 7, 7a, 8, 9, 10, 11, 24, 25, being all the undergraduate courses in the Department of Mining.

### Equipment

LECTURE ILLUSTRATIONS—The lectures on mining are illustrated by 5 sets of books aggregating over 300 volumes, and containing 85,000 blue prints from negatives made for the purpose. There are a sufficient number of these books, illustrating the different courses of lectures, so that each student has the use of one or more for reference during the lectures and for home study. These blue prints have many advantages over the usual form of lecture illustrations by lantern slides or wall diagrams. The latter are, however, used when necessary to supplement the blue prints.

MINING LIBRARY—The University Library contains sets of the transactions of all mining, metallurgical, and engineering societies, and of the more important periodical publications on these subjects. There is also a large collection of books on mining, and all new publications of value are added as they appear. In addition, a small departmental reference library has been created, which is accessible to students at all times.

MINING MUSEUM—The subject of mining is illustrated by collections as follows: Maps of coal and metal mines of this and other countries. Working drawings, diagrams, and photographs of mine plant, and of mining and dressing machinery. Models of mines and parts of mines and of mine plant. Mining tools: picks, shovels, hammers, drills, blasting apparatus, lamps, safety-lamps, anemometers, and machine drills. Ores and dressing products from typical works in this and other countries. Surveying instruments: geological compasses and clinometers, attraction compasses, dipping needles, hanging compasses and arcs, transits, lamp signals, rods, and apparatus for plumbing and measuring shafts.

MINING LABORATORIES—Seven rooms in the basement and sub-basement of the Engineering Building are equipped as laboratories for the department of mining. These laboratories serve four purposes: 1. To illustrate the physical laws bearing on mineral separation. 2. To afford opportunity for quantitative working tests. 3. To train stu-

dents in the adjustment and operation of concentrating machinery, and in the making of efficiency tests under working conditions. 4. To give advanced students and others all necessary facilities for original investigation.

**MINES AND DRESSING WORKS**—Many coal, iron, and other mines, slate and stone quarries, and metallurgical works are easily accessible. Within a radius of one hundred miles of New York City may be studied numerous examples of the best practice in mining and metallurgy under most varied conditions, and some of the most modern and effective mining and dressing machinery and smelting plants in the country. The excursions of the summer class in mining extend as far as the iron, copper, zinc, lead, silver, and gold regions of Michigan, Missouri, Montana, Colorado, and Utah.

The metropolitan situation of the school renders it possible to present, also, as parts of the regular courses in mining, special lectures by prominent engineers. The list of such lecturers for 1903-04 and more detailed information as to the courses offered and as to the facilities for instruction will be found in the *Announcement of the School of Mines* for 1904-06.

## Music

CORNELIUS RÜBNER .....	<i>Professor</i>
LEONARD BEECHER MCWHOOD, A.B. ....	<i>Adjunct Professor</i>
GUSTAV HINRICHS. ....	<i>Conductor</i>

The courses in this department fall into four divisions; general musical culture, the technique of musical composition, musical dictation, and practical training in orchestral and choral music. In the general courses, music is treated historically and æsthetically as an element of liberal culture; the technical side of the art is explained, and the lectures are supplemented by illustrations and analysis. The aim of the technical courses is to teach music theoretically and scientifically with a view to training musicians competent to teach and to compose.

Course 2 is not given in 1904-05.

All courses are open to undergraduate students, to university students, to special students of music, and to auditors; and all, except Courses 8 and 9, to women on the same terms as to men.

Course 2 is open only to students that have taken Course 1, and to others equally qualified. Similarly, Courses 4 and 7 presuppose 3, 10 presupposes 3 and 6, 11 presupposes 7, and 5 presupposes 4 and 7.

Any course may be counted toward the degree of Bachelor of Arts, except that courses 8, 9, and 13 may be counted only in connection with some other course in Music. Only Courses 4, 5, and 11 (or other courses in connection with one of these) may be counted toward the degrees of Master of Arts and Doctor of Philosophy.



For the courses in Music offered at Teachers College see the *Announcement of Teachers College*, and for Extension courses see the *Announcement of Extension Courses*.

### Courses

1—General musical course—The history of music—the origin, development, and meaning of music, with especial reference to the works of the great composers. Without being technical in nature, this course treats of music as an element of liberal culture. It is fully illustrated with music. 1 hour. Professor McWHOOD

[2—General musical course, advanced.

*Not given in 1904-05]*

3—Harmony—This course treats of general theory, harmony, chords, and their mutual significance, altered chords, suspensions, modulation, and analysis. 2 hours. Lectures and class-work. Professor McWHOOD

4—Counterpoint—This course treats of counterpoint, canon, fugue, and analysis. 2 hours. Lectures and class-work. Professor McWHOOD

5—Orchestration and symphonic form—This course treats of free composition, analysis, instrumentation, and symphonic forms. 2 hours. Lectures and class-work. Professor RÜBNER

6—Musical dictation—Melodic and rhythmic dictation, and the beginning of harmonic dictation. 1 hour. Professor McWHOOD

7—Advanced harmony and practical composition—This course treats of free harmony and the practical composition of music. It may be considered as a continuation of Course 3. 1 hour. Professor McWHOOD

8—Men's chorus. 2 hours. Mr. HINRICHS

9—University orchestra. 2 hours. Mr. HINRICHS

10—Musical dictation, advanced. This course treats, especially, of harmonic dictation. 1 hour. Professor McWHOOD

11—Free composition, advanced. This course is a continuation of Course 7. A thorough knowledge of harmony and some experience in composition are required. 1 hour. Professor RÜBNER

12—Analysis of musical sound. 1 hour, second half-year. Professor McWHOOD

13—University Chorus—This chorus, which is open to both men and women, is concerned with the study of the choral works of the masters, old and new. Concerts are given by the chorus, illustrative of the historical development of choral music. 1 hour. Professor RÜBNER

### Equipment

A collection of music and of books of reference is placed at the disposal of students. It includes the complete works of various com-

posers, many orchestral and opera scores, the piano-forte classics, and vocal music, besides many theoretical, historical, and biographical works. The department has also a collection of instruments for the use of students participating in the university orchestra.

### Neurology

M. ALLEN STARR, M.D., LL.D., Sc.D. ....	<i>Professor</i>
FREDERICK PETERSON, M.D. ....	<i>Clinical Professor of Psychiatry</i>
PEARCE BAILEY, M.D. ....	<i>Chief of Clinic and Instructor</i>
R. H. CUNNINGHAM, M.D. ....	<i>Instructor</i>

#### *Clinical Assistants*

C. E. ATWOOD, M.D.	E. L. HUNT, M.D.
S. P. GOODHARDT, M.D.	L. PIERCE CLARK, M.D.
SMITH ELY JELLIFFE, M.D.	H. R. HUMPHRIES, M.D.
B. E. KRYSTALL, M.D.	THOS. L. PROUT, M.D.
L. M. GIBSON, M.D.	G. W. TODD, M.D.
L. S. MANSON, M.D.	E. J. McENTEE, M.D.

A. F. WITMER, M.D.

### Courses

- 1—Didactic lectures with lantern demonstration on nervous diseases. 1 hour, four months for two years. W., 4 P.M. Professor STARR.  
Spinal Cord and Nerves, 1904. Brain, 1905.
- 2—Clinical lectures. 1 hour, F., 2 P.M. Professor STARR
- 3—Section teaching—Practical neurology. Ten lessons. Dr. BAILEY and Dr. CUNNINGHAM
- 4—Clinics on insanity. 4 hours in March. Professor PETERSON

### Normal Histology

(See page 158)

### Obstetrics

EDWIN B. CRAGIN, M.D. ....	<i>Professor</i>
HARRY McM. PAINTER, M.D. ....	<i>Professor of Clinical Obstetrics</i>
JAMES D. VOORHEES, M.D. ....	<i>Lecturer</i>
GEORGE H. RYDER, M.D. ....	<i>Instructor</i>

### Courses

Course 1 is required, in the third year, of candidates for the degree of M.D.; Course 2, in the second year; Course 3, in the fourth year.

1—Theory and practice of obstetrics—Lectures. 3 hours, two didactic and one clinical, during the first half-year. Professor CRAGIN

2—Recitations and demonstrations. 1 hour for each student. One sixth of the class receives instruction daily, by recitations and demonstrations. Dr. VOORHEES

3—Practical instruction at the Sloane Maternity Hospital. The students are divided, at the beginning of the academic year, into sections of six, each section remaining on duty at the Hospital for two weeks.  
Dr. RYDER

### The Sloane Maternity Hospital

The Sloane Maternity Hospital is situated upon the grounds of the College of Physicians and Surgeons, and the service is under the exclusive direction of the Professor of Obstetrics in the College, one of the Instructors in Obstetrics being the resident physician.

The wards of the Hospital furnish one hundred and sixteen beds, and there are ample accommodations for the house staff, students, and nurses. The operating-room is equipped with all modern surgical and obstetrical conveniences, and has seating accommodations for fifty-one students. The number of deliveries averages over fourteen hundred a year. These, with the obstetric operations and the subsequent treatment of women and infants, afford invaluable practical experience, such as is offered at no other medical school in this country.

## Oriental Languages

### CHINESE

FRIEDRICH HIRTH, Ph.D. . . . . *Dean Lung Professor*  
BERTHOLD LAUFER, Ph.D. . . . . *Lecturer*  
ROBERT J. H. KLIENE . . . . . *Assistant*

Courses 1, 9, 10, 11, and 12 are open to Seniors in Columbia College, Courses 10, 11, and 12 are designed for students not wishing to become specialists. All courses are open to auditors. The seminars are arranged for advanced students only.

Pending the completion of the collection of Chinese books now in the course of formation in connection with the Columbia Library, Courses and Seminars will be held in Professor HIRTH's private library, near Columbia University, 501 W. 113th Street. Course 12 (Ethnography) will be given in No. 507, Schermerhorn H., at the University.

1—Elementary course—Study of Chinese characters with explanations regarding the peculiarities of Chinese life and language. Text-book: T. L. Bullock, *Progressive Exercises in the Chinese Written Language*. 3 hours. Professor HIRTH

1b—Same as 1. Evening course. 2 hours. Mr. KLIENE

2—Analysis and translation of easy documents written in the Chinese modern business style: treaties, despatches, rules and regulations, commercial letters, contracts, etc. 2 hours. Professor HIRTH

This course is intended for those who have taken Course 1 and may wish to do business in China. It is desirable that students combine it with Courses 4 and 5.

3—Analysis and translation of selected easy texts from the national histories and the Confucian classics. 2 hours. Professor HIRTH

- 4—Helps and keys in Chinese literature. 1 hour. Professor HIRTH  
 Practical directions how to use such works as K'ang-hi's Dictionary, the *P'ei-wōn-yūn-fu*, the *Piēn-tzī-lai-piēn*, chronological, geographical, and biographical handbooks, and the several encyclopedias, indispensable to those who wish to translate written Chinese correctly and search for information contained in Chinese books.
- 5—Selected works of Chinese literature. 1 hour. Professor HIRTH
- 9—Colloquial studies in the Mandarin dialect. Evening course. 2 hours. Mr. KLIENE
- 10—History of the Chinese Empire. Continued from previous year. 1 hour. Professor HIRTH
- 11—Language, literature, government, and social life of the Chinese. 1 hour. Professor HIRTH
- 12—Ethnography of Asia as represented in Chinese literature. To form part of Anthropology 8. 2 hours. Professor HIRTH

### Seminars

The Seminars are for research work and special study in three directions: (a) modern government matters; (b) historical literature; and (c) literature on art, industry, and culture. Any two of them will be offered in each academic year, according to the needs of the students presenting themselves. It is expected that, in order to participate in any of these Seminars, students have either gone through the preceding courses (1 to 5), or otherwise acquired the requisite knowledge of the book language.

6—Seminar for the study of Chinese government matters, based on original state papers taken from the *Peking Gazette*, Chinese provincial newspapers and other publications, memorials, imperial edicts, etc. For advanced students. 1 hour. Professor HIRTH

7—Seminar for historical studies in Chinese literature. 1 hour. Professor HIRTH

For research work in the ancient and mediæval history of Central Asia in connection with the discoveries made by modern explorers in Eastern Turkestan.

8—Seminar for the study of Chinese art, industry, and general culture. 1 hour. Professor HIRTH.

### INDO-IRANIAN LANGUAGES

A. V. WILLIAMS JACKSON, Ph.D., L.H.D., L.L.D. . . . . Professor  
 ABRAHAM YOHANNAN, Ph.D. . . . . Lecturer

The following courses of instruction are intended to be introductory to the study of comparative philology and of the history of religion, as well as to the study of the history, antiquities, and literature of India and Persia and also of Armenia. Indo-Iranian 1 may be taken with advantage in connection with any of the Latin, Greek, or other linguistic courses.

Course 1 is open to juniors in the college. Courses 1, 2, 3, and 11



are open to seniors and graduate students. If taken by candidates for higher degrees, Course 1 must be supplemented by additional work or by taking some kindred course in the department. Course 1 may also be taken as an elective by juniors in the College. Courses 4, 5, 6, 7, 10, and 12 are open to advanced students only. Courses 8 and 9 are open to students pursuing one other course in the department. Course 13 is open to seniors in the College and to university students.

Courses 1, 3, 11, and either 2 or 4 are intended to be given each year. Courses 5, 6, 7, 8, and 12 form a supplementary series. Two of this series will be given each year according to the requirements of the students in attendance.

Course 9, on some special Iranian subject, Course 10, on Zoroaster and Buddha and their teachings, and Course 13, on the history of India and Persia, will be offered every second or third year.

Course 11 is open to auditors, and to women on the same terms as to men.

### Courses

1—Sanskrit elementary course. 3 hours. Professor JACKSON

[2—Avestan elementary course—Grammar and reading of texts. 2 hours. Professor JACKSON

*Not given in 1904-05. To be given in 1906-07]*

3—Sanskrit, advanced course. First half-year: The Sanskrit drama, *Priyadarśikā* of Harsha; selections from Manu, with the native commentary. Second half-year: Introduction to the study of the Veda. 2 hours. Professor JACKSON

4—Avestan, advanced course—Interpretation of texts, antiquities, and literature. 2 hours. Professor JACKSON

5—Pāli, elementary course. 1 hour. Professor JACKSON

[6—Old Persian cuneiform inscriptions. 1 hour, first half-year. Professor JACKSON

*Not given in 1904-05. To be given in 1906-07]*

[7—Palhavi, introductory course. 1 hour, second half-year. Professor JACKSON

*Given in 1903-04, and in alternate years thereafter]*

8—Sanskrit literature—Lectures on some branch of the literature; rapid reading of assigned texts. 1 hour. Professor JACKSON

[9—Zoroastrian Gāthās—Reading of texts with the Pahlavi and the Sanskrit version. 1 hour. Professor JACKSON

*Given in 1903-04, and in alternate years thereafter]*

10—See introductory note above.

11—Modern Persian, introductory course. First half-year: Grammar and reading. St. Clair-Tisdall's *Modern Persian Conversation-Grammar*. Second half-year: Interpretation of Sa'di's *Gulistan*. 2 hours. Dr. YOHANNAN

12—Modern Persian, second-year course. Selections from Firdausi, from Omar Khayyām, and from Hāfiz. 2 hours. Dr. YOHANNAN

[13—History of India and of Persia. 2 hours, first half-year. Professor JACKSON

This course is identical with History 57

*Given in 1903-04 and in alternate years thereafter]*

#### Course in Armenian

1—Principles of the grammar, with selected readings. 2 hours. Dr. YOHANNAN

#### Seminar

Indo-Iranian Seminar. 1 hour. Professor JACKSON

#### Lectures

A course of afternoon lectures on the literature, antiquities, and history of ancient India and Persia, open to all students of the University and to auditors, is given during the winter months. Public announcement of the subjects will be made at the time when these lectures are to be delivered.

#### Course in the Science of Language

Introduction to the science of language. 2 hours. Professor JACKSON

This course is open to seniors and juniors in the College, to all university students, and to auditors. It may not be counted toward the degree of Master of Arts or Doctor of Philosophy except on the basis of special work done in connection with it. It is planned to add in this course a second year of study in which the student shall devote himself to research in the philology of one particular family of languages. In this connection Professor Gottheil and Professor Jackson propose to offer advanced courses in Semitic and Indo-Iranian linguistics.

#### SEMITIC LANGUAGES

<sup>1</sup> RICHARD J. H. GOTTHEIL, Ph.D.....	Professor
JOHN DYNELEY PRINCE, Ph.D.....	Professor
ABRAHAM YOHANNAN, Ph.D.....	Lecturer
WILLIAM POPPER, Ph.D.....	Lecturer

Courses 1, 2, 3, 4, 5, 10, 12, 13, 15, 16, 18, 19, and 20, and the Seminar, are open to seniors in Columbia College and to university students; Courses 6, 7, 8, 9, 11, 14, and 17, to advanced students only. All the courses in Semitic Languages except the Seminar are open to auditors. Courses 1, 2, 4, 10, 12, 13, 15, and 16 are open also to juniors in Columbia College.

<sup>1</sup> Absent on leave

## Courses in Hebrew

The course in Hebrew extends over three years. The first year is devoted to the study of the elements; the second, to the study of the syntax and the acquiring of ease in translating from Hebrew into English and from English into Hebrew; the third, to a critical study of one or more books of the Bible.

The attention of students in the College is directed to the fact that it is desirable that those who intend entering a theological seminary after graduation shall have had at least two years' previous training in Hebrew. Opportunity for this training is given the students of Columbia College, Hebrew being an elective in both the junior and senior classes.

1—Biblical Hebrew, elementary course. 2 hours. Dr. POPPER

2—Biblical Hebrew, second course—(a) Interpretation of Ecclesiastes. 2 hours. Professor PRINCE. (b) The development of Hebrew poetry: selections and exegesis. 2 hours. Professor PRINCE

3 [(a)—Biblical Hebrew, third (lecture) course—Semitic archæology and its bearings upon the study of the Bible. 2 hours, first half-year. Professor GOTTHEIL. *Not given in 1904-05.*] (b) The history of the literature of the Old Testament: Lectures on the origin and development of Hebrew literature. 1 hour throughout the year. Professor PRINCE

4—Selected readings from the Mishnah. 2 hours. Dr. POPPER

[5—Selected readings from the Talmud, Treatise Berachoth. 2 hours. Professor GOTTHEIL  
*Not given in 1904-05]*

[6—Lectures on post-Biblical Hebrew literature. 2 hours, first half-year. Professor GOTTHEIL  
*Not given in 1904-05]*

For Courses 4 and 5 a good knowledge of Biblical Hebrew is required.

Other courses in Hebrew are given at the Union Theological Seminary.

For Extension courses in Biblical Literature, see the special announcement of such work issued by Teachers College.

## Courses in Semitic Epigraphy

These courses are intended to cover the whole field of Semitic Epigraphy during a period of three years. For Course 7 a previous knowledge of Hebrew is required; for Course 8, of Aramæan; and for Course 9, of Arabic.

[7—Interpretation of the Phœnician inscriptions, with an introduction to Semitic palæography and the history of the alphabet. *Corpus Inscriptionum Semiticarum*, vol. i. 1 hour. Professor GOTTHEIL

*Not given in 1904-05. To be given in 1905-06]*

[8—Interpretation of the Aramæan inscriptions of Sinjirli and of the *Corpus Inscriptionum Semiticarum*, vol. ii. 1 hour. Professor GOTTHEIL

*Not given in 1904-05]*

[9—Interpretation of the Sabæan and Himyaritic inscriptions contained in the *Corpus Inscriptionum Semiticarum*, vol. iv. Professor GOTTHEIL

*Not given in 1904-05]*

### Courses in Assyrian

10—Elementary course—Study of the syllabary, with readings. 2 hours. Professor PRINCE

11—Advanced course—Sumerian grammar and vocabulary, with study of Sumerian texts. 2 hours. Professor PRINCE

Only such students may take this course who have previously taken the first course or have done an equivalent amount of work.

### Courses in Arabic

12—Elementary course—Grammar and translation. 2 hours. Dr. POPPER

13—Second course—Study of Brunnow's *Chrestomathie aus arabischen Prosaschriftstellern*. 2 hours. Dr. POPPER

14—Advanced course—Selections from the *Annals of Tabari* and from the *Prolegomena of Ibn Khaldun*; Arib, *Tabari Continuatus* (ed. De Goeje, Leiden, 1897). 2 hours. Dr. POPPER

14a—Conversational Arabic. Professor PRINCE

### Courses in Syriac

15—First course. First half-year: Grammar and selected readings from the Peshitta. Second half-year: Interpretations of selected portions of the *Acta Martyrum* (ed. Bedjan). 2 hours. Dr. POPPER

16—Second course. First half-year: Interpretation of *Tash'ûthâ de-Mâr Yabhalâhâh* (ed. Bedjan). Second half-year: Interpretation of the Syriac grammar *Kethâbhâ Dhesemhê* of Bar Hebraeus. 2 hours. Dr. YOHANNAN

In case there should be a demand for instruction in Modern Syriac, Dr. Yohannan will make arrangements for a course.

### Course in Ethiopic

[17—Principles of the grammar and reading of the extracts in Prætorius. 1 hour. Professor GOTTHEIL

*Not given in 1904-05]*

### Courses in Oriental History

18—The ancient history of Western Asia from the earliest times until the period of Alexander the Great. 2 hours. Professor PRINCE

This course is identical with History 56



[19—The rise of Arabian civilization and the spread of Mohammedanism. Professor GOTTHEIL

*Not given in 1904-05]*

20—The nearer Orient. Dr. POPPER

### Semitic Seminar

21—The Seminar will take up the study of current questions in Semitic philology and history with especial reference to modern methods of research. Professor PRINCE and Dr. POPPER

Attendance at the Seminar meetings will be obligatory upon candidates for the degrees of Master of Arts and Doctor of Philosophy whose major subject is in Semitic Languages. The meetings are open also to advanced students one of whose minor subjects is in the Department of Semitic Languages.

### Courses in Egyptian

22—Elementary course in Coptic. 1 hour a week. Professor PRINCE

23—Egyptian hieroglyphs and advanced Coptic. 1 hour. Professor PRINCE

### Course in Turkish

22—Principles of the grammar. Second half-year: Exercises in Turkish conversation and in the reading of Turkish newspapers. 2 hours. Dr. YOHANNAN

### Courses in Semitic Languages at the Union Theological Seminary

A detailed announcement of these courses is given in the circular issued by the Division of Oriental Languages. Such courses may be counted as part of the work required for the degrees of Master of Arts and Doctor of Philosophy.

### Equipment

The Columbia University Library (about 330,000 volumes) contains most of the important periodicals which deal with Oriental research, and has quite a rich collection of the publications of the learned societies of Europe—*e. g.*, of the Academies of Berlin, Vienna, Leipsic. St. Petersburg, Brussels, Paris, and Rome (Lincei).

The books relating to East Indian and Iranian subjects in the University Library comprise already a good collection of the most important text-editions and works of reference, and additions are constantly being made. Most of the best works dealing with Semitic philology will be found in the Library; care has been taken, especially in Assyriology, to buy all the more important publications. In the Avery Architectural Library most of the monumental works relating to Eastern art and archæology will be found. Through the generosity of the trustees of Temple Emanuel, the Library now possesses the most

complete collection of works in Rabbinical Hebrew to be found in this country. There is also a small collection of Hebrew, Arabic, and Persian MSS., designed for the use of advanced students. The resources of the University Library are supplemented in the most valuable way by the collections of all branches of Orientalia in the New York Public Library. A collection of old Babylonian tablets has been added to the department. These, together with the casts of tablets in the Metropolitan Museum of Art, furnish material for those who wish to devote themselves especially to the study of Babylonian and Assyrian.

The library of the Union Theological Seminary, which is accessible to advanced students at Columbia University, contains all the current theological periodicals.

### Pathology

*Including Pathology, Normal Histology, Bacteriology and Hygiene,  
Clinical Pathology, and Photomicrography*

- T. MITCHELL PRUDDEN, M.D., LL.D.....*Professor of Pathology and  
Director of the Associated Laboratories*
- PHILIP HANSON HISS, Jr., M.D.....*Adjunct Professor of Bacteriology*
- EUGENE HODENPYL, M.D. .*Adjunct Professor of Pathological Anatomy*
- FRANCIS CARTER WOOD M.D. .*Adjunct Professor of Clinical Pathology*
- FREDERICK RANDOLPH BAILEY, M.D.....*Adjunct Professor of Normal  
Histology*
- EDWARD LEAMING, M.D.....*Instructor in Photomicrography*
- JOHN H. LARKIN, M.D.....*Instructor in Pathology and Curator of the  
Museum*
- NORMAN E. DITMAN, M.D.....*Instructor in Pathology*
- A. M. MILLER.....*Instructor in Normal Histology*
- OLIVER S. STRONG, A.M., Ph.D.....*Instructor in Normal Histology*
- AUGUSTUS B. WADSWORTH, M.D.....*Instructor in Bacteriology and  
Hygiene*
- EDMUND L. DOW, M.D.....*Demonstrator in Pathological Anatomy*
- GEORGE A. TUTTLE, M.D.....*Demonstrator in Pathological Anatomy*
- HORST OERTEL M.D.....*Demonstrator in Pathological Anatomy*
- D. STUART DODGE JESSUP, M.D.....*Assistant in Clinical Pathology*
- CHARLES EVERETT BANKER, M.D.....*Assistant in Normal Histology*
- CHARLES HENDEE SMITH, M.D.....*Assistant in Normal Histology*
- KARL M. VOGEL, M.D.....*Assistant in Pathology*
- HENRY S. PATTERSON, M.D.....*Assistant in Clinical Pathology*
- AUSTEN FOX RIGGS M.D.....*Assistant in Pathology*
- HERBERT B. WILCOX, M.D. ....*Assistant in Clinical Pathology*
- CLINTON BEECHAM KNAPP, M.D.....*Assistant in Bacteriology and  
Hygiene*
- J. HARVEY BORDEN, M.D. ....*Assistant in Bacteriology and Hygiene*

For the convenience of administration, and for the better association of allied themes, the laboratories of Pathology, Normal Histology, Bacteriology and Hygiene, Clinical Pathology, and Photography are grouped together in the Department of Pathology under the direction of the Professor of Pathology.

### Courses

*Further details respecting the following courses are to be found in the special Bulletin of Information of the College of Physicians and Surgeons.*

Course 1 in Normal Histology is required, in the first year, of candidates for the degree of M.D. This course may be elected by seniors in Columbia College.

Courses 1 in Pathology and 1 in Bacteriology and Hygiene are required, in the second year, of candidates for the degree of M.D.

Courses 2 and 3 in Pathology are required, in the third year, of candidates for the degree of M.D.

Course 1 in Clinical Pathology is required, in the third year, of candidates for the degree of M.D.

Course 2 in Bacteriology and Hygiene may be offered as a minor for one year by candidates for the degree of A.M. or Ph.D. Course 3 in Bacteriology and Hygiene may be offered as a major for one year by candidates for the degree of A.M. or Ph.D.

Courses 4 in Pathology and 2 in Clinical Pathology cannot be counted for a degree, and are only open to qualified graduate students by special arrangement with the head of the department.

### Courses in Pathology

1—Autopsy technique and pathological anatomy at the Roosevelt, Presbyterian, St. Luke's, Bellevue, or City Hospitals, once a week for eight weeks. Drs. HODENPYL, TUTTLE, WOOD, and OERTEL

2—Practical instruction in general pathology, pathological anatomy and histology, and in the bacteriology of the infectious diseases. 8 hours a week for one half of the academic year. Professors PRUDEN and HODENPYL, and Drs. LARKIN, BAILEY, DITMAN, VOGEL, and RIGGS

3—Demonstrations in pathological anatomy. 1 hour a week throughout the academic year. Prof. HODENPYL and Drs. LARKIN, DITMAN, VOGEL, and RIGGS

4—Pathological anatomy and histology, experimental pathology, bacteriology as applied to medicine, and clinical pathology. Professors PRUDEN, HISS, HODENPYL, and WOOD

### Courses in Normal Histology

1—Practical instruction in general normal histology. 10 hours a week for one half of the academic year. Prof. BAILEY and Drs. STRONG, MILLER, BANKER, and SMITH

### Courses in Bacteriology and Hygiene

1—Practical instruction in bacteriology and hygiene. 6 hours a week for one quarter of the academic year. Prof. HISS and Drs. WADSWORTH and KNAPP

2—Special laboratory course in advanced bacteriology and bacteriological technique. This course is given but once during the year, and requires attendance at the laboratory for the entire afternoon in January, February, and March. Professor HISS and Dr. WADSWORTH

3—Laboratory course—As under Course 2, with additional study and determination of known species of bacteria; special study of the chemical products formed in the growth of bacteria; practical work in photomicrography and the pursuit of some selected theme for original investigation. Professors PRUDDEN and HISS, and Drs. WADSWORTH and LEAMING

### Courses in Clinical Pathology

1—Practical instruction in clinical pathology 6 hours a week for one quarter of the academic year. Professor WOOD and Drs. JESSUP, PATTERSON, and WILCOX

2—Special laboratory course in clinical pathology. Professor WOOD

### Photography and Photomicrography

1—Practical instruction is given to a limited number of men in the photographic laboratories of the college, in the technique of photography and photomicrography. Dr. LEAMING

### Research

Research in pathology and bacteriology may be pursued in the laboratories of this department by a limited number of graduate students or practitioners of medicine or other advanced workers. Professor PRUDDEN

### Museum

The Museum of Pathology is made use of in the work of this department, both for the instruction of medical students and as a place of deposit for specimens showing new and rare forms of lesions.

### Equipment

The Department of Pathology occupies the two upper floors of the north wing of the college building. The large class-room on the upper floor is used, as formerly, for the classes in normal histology and in pathology. The fourth floor is devoted to the pathological museum and to a large preparation laboratory, a workshop, cold storage, and



the like. The remaining space is devoted to a general laboratory and to private rooms for instructors and advanced workers in pathology, to undergraduate and to research work in bacteriology and hygiene and clinical pathology, and to a departmental library.

The entire space is amply lighted, fully furnished, and equipped with such new apparatus as the rapidly growing sciences of pathology, bacteriology, and closely allied themes require.

### Pediatrics

ABRAHAM JACOBI, M.D., LL.D.....*Emeritus Professor*

L. EMMETT HOLT, M.D., LL.D., Sc.D.....*Carpentier Professor*

LINNAEUS EDFORD LA FETRA, M.D.....*Chief of Clinic and Instructor*

JOHN HOWLAND, M.D. ....*Instructor in Contagious Diseases*

FRANK S. MEARA, M.D. ....*Tutor*

### *Clinical Assistants*

LOUIS M. SILVER, M.D.

SIDNEY V. HAAS, M.D.

ALBERT F. BRUGMAN, M.D.

ANDREW B. YARD, M.D.

BERNARD SOUR, M.D.

EDWARD MILLER, M.D.

ROBERT H. MCCONNELL, M.D.

HENRY E. HALE, M.D.

### Courses

Courses 1, 3, 5, and 6 are required in the third year, and Courses 1, 2, and 4 in the fourth year, of candidates for the degree of M.D.; Course 7 is optional in the fourth year.

1—Didactic lectures at the College upon pediatrics. 1 hour. Wednesday at 4 P.M., from February to May. Professor HOLT

2—Clinical lectures at the Vanderbilt Clinic upon pediatrics. 1 hour. Wednesday at 2 P.M., from October to February. Professor HOLT

3—Practical instruction at the Vanderbilt Clinic in the diagnosis and treatment of the diseases of children. 10 lessons for each student. Dr. L. E. LA FETRA

4—Hospital clinic—Foundling or Babies' Hospital, Tuesdays at 2 P.M., Fridays at 3.15 P.M., from October to May. Professor HOLT

5—Bedside instruction in contagious diseases at the Willard Parker Hospital, to small sections of the class. Dr. HOWLAND

6—A weekly recitation in pediatrics for each student for half the year. Dr. MEARA

7—Hospital clinic—Roosevelt Hospital, Mondays and Thursdays at 5 P.M., from October to May. Professor JACOBI

### Pharmacology, Materia Medica, and Therapeutics

CHRISTIAN A. HERTER, M.D.	<i>Professor of Pharmacology and Therapeutics</i>
SAMUEL W. LAMBERT, M.D. ....	<i>Professor of Applied Therapeutics</i>
SMITH ELY JELLIFFE, M.D., Ph.D. ....	<i>Instructor in Pharmacology and Therapeutics</i>
ALFRED N. RICHARDS, Ph.D. ....	<i>Instructor in Pharmacology</i>
WALTER A. BASTEDO, M.D.	<i>Tutor in Materia Medica and Pharmacology</i>
HENRY S. PATTERSON, M.D. ....	<i>Tutor in Therapeutics</i>
WILLIAM R. WILLIAMS, M.D. ....	<i>Tutor in Therapeutics</i>

#### Courses

Courses 1, 2, and 3 are required in the second year, Courses 4 and 8 in the third year, Course 5 in both the third and fourth years, and Course 6 in the fourth year, of candidates for the degree of M.D. Course 7 is optional to a limited number of students in the third year in medicine, Course 4 in the fourth year, and Course 9 in the third and fourth years.

1—Lectures on the principles of materia medica. 1 a week during the first half-year. Dr. JELLIFFE

2—Practical instruction in the pharmaceutical laboratory. 3 hours a week for one half of the year. Drs. JELLIFFE and BASTEDO

3—Recitations in materia medica and pharmacology. 1 hour a week throughout the year. Drs. JELLIFFE and BASTEDO

4—Lectures on the principles of pharmacology, toxicology, and therapeutics. 2 hours a week during the first half-year. Professor HERTER

5—Lectures on applied therapeutics. 2 hours a week during the second half-year. Professor LAMBERT

6—Clinical instruction in therapeutics. 1 hour exercises, six times a week for four weeks, in sections. Professor LAMBERT and Dr. PATTERSON

7—Laboratory course in pharmacology. 2-hour exercises twice a week for one quarter of the year. Dr. RICHARDS and Dr. SYMMERS

8—Recitations on the work given in lectures of Courses 4 and 5. 1 hour a week throughout the year. Dr. WILLIAMS

9—Prescription work in the pharmaceutical laboratory, for advanced students. Drs. JELLIFFE and BASTEDO

#### Research

The research laboratory of pharmacology is open to a limited number of workers.

### Philosophy and Psychology

JAMES McKEEN CATTELL, Ph.D.....	Professor
MOSES ALLEN STARR, M.D., LL.D., Sc.D.....	Professor
HERBERT GARDINER LORD, A.M.....	Professor
FREDERICK JAMES EUGENE WOODBRIDGE, A.M., LL.D.....	Johnsonian Professor
FELIX ADLER, Ph.D.....	Professor
CHARLES AUGUSTUS STRONG, A.B.....	Professor
GEORGE STUART FULLERTON, Ph.D., LL.D. ....	Professor
JOHN DEWEY, Ph.D., LL.D.....	Professor
ROBERT SESSIONS WOODWORTH, Ph.D.....	Instructor
ADAM LEROY JONES, Ph.D.....	Tutor
WILMON HENRY SHELDON, Ph.D.....	Tutor
WILLIAM PEPPERRELL MONTAGUE, Ph.D.....	Tutor
DICKINSON S. MILLER, Ph.D. ....	Lecturer
PERCY HUGHES, Ph.D.....	Assistant
FRANK G. BRUNER, A.B.....	Assistant
G. CUTLER FRACKER, A.M. ....	Assistant
EDWARD LEE THORNDIKE, Ph.D.....	Professor in Teachers College
JOHN ANGUS MACVANNEL, Ph.D..	Adjunct Professor in Teachers College
NAOMI NORSWORTHY, Ph.D.....	Tutor in Teachers College

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NICHOLAS MURRAY BUTLER, Ph.D., LL.D.....*President and Professor*

The courses primarily for students of the colleges are intended to offer the training in philosophy and psychology which is believed to be essential for a liberal education, to give instruction preliminary to certain of the professions, and to prepare students for advanced work.

Psychology A, given in four sections at Columbia College, in three sections at Barnard College, and in three sections at Teachers College, is required in the sophomore or junior year. It should be elected in the sophomore year by students wishing to follow other courses in philosophy or psychology.

Psychology 10 (given both at Columbia and Barnard Colleges), 8, and 9 are primarily for sophomores and juniors.

Philosophy 2 and 9 (given both at Columbia and Barnard Colleges) and Psychology 1 and 18 are for juniors and seniors.

Philosophy 1 (given both at Columbia and Barnard Colleges), 7, and 8, and Psychology 2, 3, and 16, are primarily for seniors, and are open to students of Columbia, Barnard, and Teachers Colleges. Juniors may be admitted in special cases; graduate students, if they have not had training in philosophy and psychology, will need to enter these courses. They may count towards the higher degrees when special work is done in connection with them.

These courses count one point towards the degree of A.B. for each hour of work through the year, or one half-point for each hour of work

through one half-year, except that two hours of laboratory work in psychology count as one point.

The graduate courses are intended to cover the whole field of philosophy and psychology and to give opportunity for research in any direction.

Philosophy 3, 4, 6, 7, 10, 11, 12, 13, 14, 15, 16, 18, 20, 21, 26, 27, 29, 30, and 31, and Psychology 5, 6, 7, 11, 14, 17, and 19, are for graduate students in the first or second year of residence. To certain of them specially qualified seniors are admitted.

The seminars and research courses (including Psychology 4) are for graduate students who are able to do independent work, and can only be taken with the consent of the instructor.

Psychology 1 and 8 (being open to juniors) and 7 (being given at the College of Physicians and Surgeons) are not open to Barnard students, but all the courses in philosophy and psychology except Psychology 7 are open to women. All the courses are open to auditors, who, in accordance with the regulations, must secure the written consent of the instructor.

Certain courses in philosophy and psychology are offered each year in the Summer Session. For details see the *Announcement* of the Session, issued in February of each year. Extension courses in psychology are described in the special announcement issued by Teachers College.

*For special information as to the scope of each course, the courses or their equivalents that must have preceded it or must accompany it, as to what credit toward the fulfilment of the requirements for major or minor subjects will be given on the completion of the course, consult the Announcement of the Division of Philosophy, Psychology, and Anthropology for 1904-05.*

### Courses in Philosophy

1—The history of philosophy—Lectures, essays, and discussions. This course serves as a general introduction to the study of philosophy, and is pre-requisite to Courses 3, 4, 5, 6, 11, 13, 15, 20, 21, and 27. 3 hours. Professor WOODBRIDGE and Dr. MONTAGUE, assisted by Dr. HUGHES

9—Logic and scientific method. 3 hours, Columbia College, first half-year. Dr. SHELDON. Repeated, second half-year. Dr. MONTAGUE. Barnard College, first half-year. Dr. JONES

6—Logic and metaphysics—Lectures, discussions, and essays. 2 hours. Professor WOODBRIDGE

[5—Metaphysics—3 hours. Professor FULLERTON  
*Not given in 1904-05*]

[28—Seminar in metaphysics. Professor FULLERTON  
*Not given in 1904-05*]

13—Seminar in logic. Dr. SHELDON



26—Seminar in the development of English logical theory. 2 hours, second half-year. Professor DEWEY

3—The philosophy of Kant and his successors. 2 hours. Dr. SHELDON

4—British philosophy from Locke to Herbert Spencer. 2 hours. Professor WOODBRIDGE

15—The philosophy of Descartes, Spinoza, and Leibniz. 2 hours. Dr. SHELDON

20—Post-Kantian idealism in Germany. 2 hours. Dr. SHELDON

21—The philosophy of realism. 2 hours. Dr. MONTAGUE

22—Seminar in Aristotle. Professor WOODBRIDGE

33—Seminar—American philosophers. 2 hours, second half-year. Dr. JONES

[25—Seminar in Schopenhauer. Dr. MONTAGUE  
*Not given in 1904-05]*

27—Research work in philosophy. Professor DEWEY

2—Ethics: general course—Recitations, essays, and discussions. 3 hours, second half-year. Professor LORD

7—Ethics: advanced course—Lectures, essays, and discussions. 3 hours. Dr. MONTAGUE

17—Ethical ideals of the nineteenth century. 2 hours. Dr. MILLER

18—Lectures on personal ethics. 2 hours, second half-year. Professor ADLER

29—Evolution of ethical ideals since the Renaissance. 2 or 3 hours, second half-year. Professor DEWEY and Dr. MONTAGUE

30—Logic of ethics. 2 hours, second half-year. Professor DEWEY

23—Seminar in ethics, first half-year. Professor ADLER

32—Seminar in ethics. Dr. MONTAGUE

8—Principles and problems of æsthetics—Lectures, essays, and discussions. 2 or 3 hours. Dr. JONES

16—Seminar in æsthetics—Advanced study of the principal problems—Lectures, readings, essays, and discussions. 2 hours. Dr. JONES

31—The philosophy of history. 2 hours. Dr. HUGHES

14—Educational problems. 1 hour. Dean RUSSELL, in co-operation with President BUTLER and special lecturers

12—Practicum. Philosophy of education. 2 hours. Professor MACVANNEL

24—Seminar in the philosophy of education. Professor MACVANNEL

34—Logic as applied to education. 2 hours. Professor DEWEY

10—Journal club—Reports and discussions on contemporary literature. 1 hour. Dr. JONES

*Philosophy of Religion (at the Union Theological Seminary)*

- A—Philosophy of religion; the philosophical foundation. 2 hours, first half-year. Professor KNOX
- B—Theism. 2 hours, second half-year. Professor KNOX
- C—Survey of the ethnic faiths. 2 hours, first half-year. Professor KNOX
- F—Introduction to the study of the philosophy of religion. 2 hours. Professor KNOX

Apologetics B and D may also be counted as courses in the philosophy of religion.

*Ethics (at the Union Theological Seminary)*

- A and B—Christian ethics. 2 hours. Professor THOMAS C. HALL
- C—Special introduction to ethics. 2 hours, first half-year. Professor THOMAS C. HALL
- E—History of ethical thought. 2 hours. Professor THOMAS C. HALL
- G—Christian casuistry. 1 hour. Professor THOMAS C. HALL
- H—Study of modern ethics. 2 hours. Professor THOMAS C. HALL
- J—The field of ethical inquiry. 2 hours, first half-year. Professor THOMAS C. HALL

**Courses in Psychology**

A—Elements of psychology—Discussions, practical exercises, and recitations. 3 hours, first half-year, given in 4 sections at Columbia College and in 3 sections at Barnard College. Professor LORD, Dr. WOODWORTH, and Dr. JONES. Given at Teachers College in 3 sections. Professor THORNDIKE and Dr. NORSWORTHY

10—Analytic psychology, introductory course—Recitations and discussions. 3 hours, second half-year. Given at Columbia and Barnard Colleges. Professor LORD

1—Introduction to psychology.—Lectures and demonstrations. 2 hours.

- A. Prolegomena to psychology. Two lectures. President BUTLER
- B. History of psychology. Six lectures. Professor WOODBRIDGE
- C. Physiological psychology. Eight lectures. Dr. WOODWORTH
- D. Experimental psychology. Eight lectures. Professor CATTELL
- E. Genetic psychology. Eight lectures. Professor THORNDIKE
- F. Comparative psychology. Six lectures. Professor FARRAND
- G. Psychological æsthetics. Three lectures. Dr. JONES
- H. Psychological ethics. Four lectures. Professor ADLER
- J. Pathological psychology. Three lectures. Professor STARR
- K. Philosophy of mind. Six lectures. Mr. STRONG

2—Experimental psychology, introductory course—Lectures, themes, and demonstrations. 2 hours. Professor CATTELL

3—Experimental psychology—Laboratory work in connection with Psychology 2. 2 or 4 hours, counting as a 1- or 2-hour course. Professor CATTELL, assisted by Mr. FRACKER

4—Problems in experimental psychology—Lectures and reports. 2 hours. Professor CATTELL

5—Research work in experimental psychology. Professor CATTELL, assisted by Mr. BRUNER and Mr. FRACKER

16—(Same as Education 12)—Child study—Observation, experiments, private reading, and conferences. 2 hours. Dr. NORSWORTHY

11—(Same as Education 59)—Genetic psychology, advanced course. 2 hours. Professor THORNDIKE

18—Educational psychology. 2 hours. Professor THORNDIKE and Dr. NORSWORTHY

17—(Same as Education 108)—The application of psychological and statistical methods to education. Professor THORNDIKE

13—(Same as Education 109)—Research work in genetic and comparative psychology. Professor THORNDIKE

[6—Analytic psychology, advanced course—Lectures, discussions, and private reading. 2 hours. Professor STRONG

*Not given in 1904-05]*

14—Philosophy of mind—Lectures, discussions, and private reading. 2 hours. Professor STRONG

15—Research work in analytic psychology and the philosophy of mind. Professor STRONG

7—Diseases of the mind and nervous system—Lectures and demonstrations. 1 hour. Professor STARR

8—Physiological psychology, general course—Lectures and demonstrations. 3 hours. Dr. WOODWORTH

9—Physiological psychology—Laboratory work in connection with Psychology 8. 2 or 4 hours, counting as a 1- or 2-hour course. Dr. WOODWORTH, assisted by Mr. BRUNER

19—The psychology of vision. 2 hours. Dr. WOODWORTH

12—Research work in physiological and abnormal psychology. Dr. WOODWORTH

Seminars. The courses devoted to research work are conducted as seminars.

Journal club. A journal club for reports and discussions of recent psychological literature meets bi-weekly in the afternoon, and monthly in the evening.

### Equipment

LIBRARY FACILITIES—The library facilities of Columbia University and of the city of New York, for students of philosophy and psychology, are unusually good. The University Library, open daily (except

Sunday) for fifteen hours, contains more than 300,000 bound volumes and an equal number of pamphlets, and is being added to at the rate of more than 18,000 volumes annually. Any book needed by an advanced student can usually be bought at once. The collection of books on the history of philosophy is very large, that on Kant and his philosophy being especially complete. About 1000 periodicals are regularly received at the University Library, and among them will be found every journal of importance, American or foreign, dealing with philosophy or psychology. Duplicates of the more important books and journals are placed in the Psychological Laboratory, where there is also a card index of psychological literature containing over 15,000 titles. Students of psychology will also find much of value in the Library of the Academy of Medicine, 15 West 43d Street, which is open to students free of charge. The Astor and Lenox Libraries are also available for students, when introduced by one of the instructors, on especially favorable terms.

THE PSYCHOLOGICAL LABORATORY—The laboratory is in Schermerhorn Hall, a building "devoted to the advancement of natural science," erected in 1897 at a cost of over \$400,000. It occupies the eastern half of the second floor and part of the floor immediately above, the rooms being as follows: A lecture-room, seating one hundred students, used also as a general laboratory; a seminar room with a department library, a workshop, a photographic and chemical room, an apparatus cabinet, an anthropometric laboratory, five rooms used as offices and laboratories by the officers of the department, and eight research laboratories. Two of these are dark-rooms, specially constructed to exclude sound as well as light, 18 feet high and well ventilated. The laboratory has light from the north and south, is supplied with electric current of both high and low potential, and is in all respects equipped both for instruction and research. The collection of apparatus has been gradually secured at a cost of over \$7,500. It includes: (1) Outfit for making and repairing apparatus, electric motors, etc. A skilled instrument-maker is continually employed, adding greatly to the efficiency of the laboratory. (2) The outfit of an anthropometric laboratory with which freshmen in the college and others are annually tested. (3) The apparatus, preparations, charts, etc., needed for complete courses in experimental, physiological, and genetic psychology; and (4) the apparatus that has been used or is being used in special researches, a large part of which has been made especially for the laboratory. The outfit for the courses of instruction is now in large measure secured, and the annual appropriations can be used chiefly for apparatus needed in special researches.

### Photography and Photomicrography

(See page 158.)



## Physical Education

THOMAS DENISON WOOD, M.D.....	<i>Professor</i>
GEORGE L. MEYLAN, A.M., M.D.....	<i>Adjunct Professor and Medical Director of the University Gymnasium</i>
WILLIAM SKARSTROM, M.D.....	<i>Instructor</i>
JOHN A. DAVIS.....	<i>Assistant</i>
DUDLEY BILLINGS REED, A.B. ....	<i>Assistant</i>
JOHN SLACK KEITH, A.B.....	<i>Assistant</i>

The instruction in the Department of Physical Education includes the general courses in hygiene now offered and to be announced later in Columbia, Barnard, and Teachers Colleges, the instruction in physical training given in the various gymnasiums, and the courses offered in the professional course for the training of teachers of Physical Education in Teachers College.

### Courses

Hygiene a—Lectures, demonstrations, and practical work. 2 hours. Professor MEYLAN

There are also eleven courses given under the auspices of Teachers College: Physical Education 1, 2, 3, 10, 11, 12, 13, 14, 15, Education 49 and 150.

*For detailed information regarding these courses, see the Announcement of Teachers College and the Announcement of the Division of Physical Education.*

### Equipment

For description of the University gymnasium see pages 59–60.

The Frederick Ferris Thompson Memorial Building, given to Teachers College by Mrs. F. F. Thompson has been recently completed. It is a building of four stories devoted to the purposes of Physical Education and School Hygiene. It contains offices, examination rooms, lecture- and class-rooms, laboratories, hand-ball courts, bowling alleys, a swimming pool, four gymnasiums, rooms for corrective exercises, dressing-rooms, shower baths, fencing-room, and a suite of rooms for photographic purposes. This building provides physical-training facilities for the women, the pupils of the Horace Mann School, and the varied equipment for the theoretical and practical instruction of professional students in Physical Education.

<sup>1</sup> Absent on leave

## Physics

WILLIAM HALLOCK, Ph.D.....	Professor
<sup>1</sup> ERNEST FOX NICHOLS, D.Sc.....	Professor of Experimental Physics
HERSCHEL C. PARKER, Ph.B.....	Adjunct Professor
MARGARET E. MALTBY, Ph.D....	Adjunct Professor (Barnard College)
CHARLES C. TROWBRIDGE, M.S.....	Instructor
FRANK L. TUFTS, Ph.D.....	Instructor
GEORGE BRAXON PEGRAM, Ph.D.....	Tutor
BERGEN DAVIS, Ph.D.....	Tutor
HARRIET BROOKS, A.M.....	Tutor (Barnard College)
WILLIAM SCOFIELD DAY, Ph.D.....	Lecturer
CHARLES FORBES, B.S., M.D.....	Curator
LINVILLE L. HENDREN, A.M.....	Assistant
CLAUDE RUSSELL FOUNTAIN, A.B.....	Assistant
ALLEN H. NELSON, A.B.....	Assistant
EDWIN B. WHEELER, B.S.....	Assistant
WALTER A. MITCHELL, A.B.....	Assistant

## Courses

Courses 1, 2, 4, 31, 41, and 48 are open to properly qualified students in the College.

Course 1 is required of all students in Applied Science; 3a, of all except in Chemistry; 43, of students in Electrical Engineering.

Courses 2, 3a, 4, 41, and 43 to 50 may be counted toward the degrees of A.M. and Ph.D., 3 hours of lectures per week for a year, or their equivalent, being required for a minor or half-major for the A.M., and twice that amount for the corresponding credit for the Ph.D.

Courses equivalent to 1, 2, and 4 are given at Barnard College by Professor MALTBY and Miss BROOKS

31—General elementary physics. For students in medicine and those commencing the study of physics. 3 hours lectures and 3 hours laboratory work for a half-year, given twice annually. Mr. TROWBRIDGE

1—General physics—Mechanics, properties of matter, sound and heat, first half-year. Light and electricity, second half-year. 2 hours, lectures, 1 hour recitation. Dr. TUFTS, Dr. DAY, Dr. PEGRAM, and Dr. DAVIS

2—Magnetism and electricity, first half-year. Dr. TUFTS. Sound, second half-year. Dr. PEGRAM. 2 hours lectures and 2-6 hours laboratory work.

3a—Physical laboratory work—Exact experimentation and measurement in the laboratories. 2 to 6 hours. Professor PARKER

<sup>1</sup> Absent on leave

4—Light (first half-year). Professor HALLOCK. Heat (second half-year). Dr. DAY. 3 hours lectures, 2 to 4 hours laboratory work.

5—The design and construction of apparatus. 1 hour, first half-year. Professor HALLOCK

41—Fundamental phenomena of theoretical physics. 1 hour. Dr. TUFTS

43—Critical discussion of methods of measurement and computation according to the C. G. S. System. Electricity and magnetism, first half-year. Professor PARKER. Sound, light, and heat, second half-year. Dr. PEGRAM. 2 hours lectures.

44—Light, advanced course, given in the second half-year, following the first half of Course 4. 3 hours lectures. Professor HALLOCK

45—Heat, advanced course, given in the first half-year, and presupposes the second half of Course 4. 3 hours lectures. Dr. DAY

46—Electricity, advanced course, given in the second half-year to follow the first half of Course 2. 2 hours lectures. Dr. TUFTS

47—Sound, advanced course, given in the first half-year and presupposes the second half of Course 2. 2 hours lectures. Dr. PEGRAM

48—Courses in advanced laboratory work upon the various subjects of physics are arranged for properly qualified students. They will include collateral reading, and are intended to lead the way to original research.

An examination is required on general theory in connection with this course.

49—Original research under the direction of the professors is open to properly qualified persons.

[50—Course on the general subject of radiation. 2 hours. Professor NICHOLS

*Not given in 1904-05]*

52—Discharge of electricity through gases. 2 hours, first half-year. Dr. DAVIS

53—Phenomena of radioactivity. 2 hours, second half-year. Dr. PEGRAM

Pre-requisite: Course 52

Journal Club—The Journal Club of the department meets every week for the discussion of the current literature of physics and of reports of special investigations. Dr. TUFTS in charge.

*For details regarding the courses in Physics offered in the Summer Session, see the Announcements of the Session, published in February of each year.*

### Equipment

The laboratories and lecture rooms of the Department of Physics occupy four floors of Fayerweather Hall on the eastern side of the University grounds. The building is supplied with all ordinary conveniences, including compressed air, steam, electricity for power and light, direct and alternating current. There is a vertical shaft 95 feet high, with gas, electric, and water outlets every ten feet. In the sub-basement a constant-temperature room is placed twelve feet below the surface of the ground. There are two lecture rooms, a library, an apparatus room, a shop, and a small laboratory on the first floor, while the remaining three floors devoted to the department are occupied by laboratories of different kinds.

The general laboratories are provided with all the usual apparatus for undergraduate work in mechanics, sound, heat, light, electricity, and magnetism.

The laboratories used for research have been named by the Trustees the "Phoenix Physical Laboratories," in memory of Mr. Stephen Whitney Phoenix, who bequeathed to the University a generous sum as an endowment for research in the physical sciences. On account of this endowment unusual facilities are offered for advanced work and research in physics. Among the principal additions to the equipment of these laboratories since 1903 may be mentioned the following: pulsometer and mercury air-pumps; a 60-cell large capacity storage battery with a complete switch-board and wiring system; two du-Bois-Rubens armored galvanometers; a 10-inch induction coil; a Wolff precision potentiometer and a Wheatstone bridge, both standardized at the Reichsanstalt; a set of high potential, direct-current dynamos, giving 6000 volts; a large electromagnet for special researches; a Michelson interferometer; a 21-foot concave grating spectroscope; a reflecting spectrometer and a torsion radiometer for work in radiation.

Arrangements have been made by which it is possible to carry on certain investigations at the Botanical Garden, in Bronx Park, free from the magnetic and other disturbances of the city.

The department has a shop equipped with wood, metal, and glass-working machinery, and employs a skilled mechanician.

The Physical Laboratories at Barnard College occupy the second floor of Fiske Hall. They are supplied with the usual conveniences and well equipped with suitable apparatus for quantitative experimental work in all the courses offered. Through the generosity of Mrs. Collord, the department has recently acquired a very complete equipment in sound apparatus suitable for illustrating the theory of the production of tone in musical instruments, and for analyzing musical sounds.

The laboratories and lecture room of Teachers College are well equipped for illustrating the teaching of physics in secondary and nor-



mal schools. In these the physics classes of the Horace Mann School receive their instruction, and by observation and practical work in connection with the classes the students in Education 92 are enabled to become familiar with the duties of a teacher of physics.

## Physiological Chemistry

(Including General Chemistry, Physiological Chemistry, Toxicological Chemistry, and Botanical Chemistry)

WILLIAM J. GIES, M.S., Ph.D.....	Adjunct Professor
EDWARD R. POSNER, M.D.....	Tutor
GUSTAVE M. MEYER, Ph.D.....	Assistant
WILLIAM N. BERG, B.S.....	Assistant
WILLIAM H. WELKER, A.C.....	Assistant

## Preliminary Statement

*Detailed reference to the scope of the courses offered in this department may be found in the Announcements of the College of Physicians and Surgeons and of the Divisions of Biology and Chemistry.*

Course 1 is required, in the first year, of candidates for the degree of M.D. It is open as an elective to qualified seniors in Columbia College.

Course 2 is required, in the second year, of candidates for the degree of M.D. It is open (1) to qualified first-year students of medicine; (2) also, as an elective, to qualified seniors in Columbia College.

Courses 2, 3, 4, 5, and 6 are offered as partial majors or minors for the degree of A.M. or Ph.D.

Candidates for the degree of A.M. or Ph.D. in this department are required to take Course 2 or its equivalent.

In addition to the courses announced below, this department co-operates with the Department of Physiology in giving Course 4 in physiology. (See page 175.)

## Courses in General Chemistry

1—General chemistry. First half-year. Lectures, 2 hours. Professor GIES. Recitations, 2 hours, each section (2). Professor GIES. Laboratory exercises (3) and demonstrations, 6 hours, each section (4). Professor GIES and Messrs. BERG and WELKER

1a—Inorganic chemistry. First quarter-year.

1b—Organic chemistry. Second quarter-year.

1c—Physical chemistry. Recitations and demonstrations at intervals throughout the first half-year.

## Courses in Physiological Chemistry

2—General physiological chemistry. Second half-year. Lecture, 1 hour. Professor GIES. Recitation, 1 hour, each section (2). Dr.

POSNER. Laboratory exercises (2) and demonstrations, 6 hours, each section (2). Professor GIES and Drs. POSNER and MEYER

3—Laboratory course in quantitative physiological chemistry, with special reference to clinical methods. Entire year. 6 hours. Professor GIES and Dr. MEYER

4—Laboratory course in advanced physiological chemistry. Research. Entire year. 12 hours. Professor GIES

#### Course in Toxicological Chemistry

5—Laboratory course in toxicological chemistry. Entire year. 6 hours. Professor GIES and Dr. POSNER

#### Course in Botanical Chemistry

6—Laboratory course in the chemical physiology of plants. Entire year. 6 hours. Professor GIES. [The course may be taken in whole or in part at the New York Botanical Garden, where Professor GIES is consulting chemist.]

#### Biochemical Seminar

The members of the teaching staff and all other investigators in the department meet weekly to study and discuss recent researches in chemical biology. The Seminar is open to all students in the University. Entire year. 2 hours. Professor GIES in charge.

#### Research

The laboratory is open to advanced workers for research.

#### Library

The private library owned by Professor Gies is housed in the laboratory and is available at all times to all students in the University.

#### Equipment

The Department of Physiological Chemistry possesses six well-equipped rooms for experimental work. Two of these are relatively large and will each accommodate about seventy workers at a time. Four smaller rooms are specially fitted up for original investigations by advanced students. The department is well equipped with all necessary apparatus for routine and research work in biological chemistry.

#### Physiology

JOHN GREEN CURTIS, M.D., LL.D.....	<i>Professor</i>
FREDERIC SCHILLER LEE, Ph.D.....	<i>Professor</i>
RUSSELL BURTON-OPITZ, S.M., M.D.....	<i>Adjunct Professor</i>
HAVEN EMERSON, A.M., M.D.....	<i>Demonstrator</i>
RICHARD HOOP CUNNINGHAM, M.D.....	<i>Instructor</i>
LEANDER HOWARD SHEARER, M.D.....	<i>Assistant Demonstrator</i>
ARTHUR WALKER BINGHAM, M.D.....	<i>Assistant Demonstrator</i>
HARRY MAYHAM KEATOR, M.D.....	<i>Assistant Demonstrator</i>

*A more detailed statement of the work and equipment of this department may be found in the Announcements of the College of Physicians and Surgeons and of the Division of Biology.*

### Preliminary Statement

Course 6 is open to juniors and seniors in Columbia College. No other course is open to undergraduates except in so far as Course 3 is required of seniors who are taking their first year in medicine.

A knowledge of general biology, such as is offered in the Department of Zoölogy, Course 2, or of elementary physiology, such as Course 6 or its equivalent, or of the first year's work in medicine, is a pre-requisite to the undertaking of work in physiology by a candidate for the degree of A.M. or of Ph.D.

Candidates for the degree of A.M. may take (a) Courses 1 and 2, or (b) in the first half-year, either Courses 3 and 4, or Course 4 with a sufficient amount of prescribed reading, and, in the second half-year, Physiological Chemistry, Course 1.

Candidates for the degree of Ph.D. are expected to take during their first year Courses 1 and 2, and during their second year, in the first half-year Course 4, with Course 3 or with a sufficient amount of prescribed reading, and in the second half-year Physiological Chemistry, Course 1.

Candidates for the degree of M.D. are required to take Course 3 during the second half of their first year and the first half of their second year.

None of the courses in this department is open to women.

### Courses

6—Elementary physiology. Given with the co-operation of the Department of Physiological Chemistry. 1 hour lecture, and 2 hours laboratory work. 516S. Professors BURTON-OPITZ and GIES

1—General physiology. Lectures, 1 hour. Professor LEE

2—Laboratory course in general physiology. 5 hours. Professor BURTON-OPITZ

3—The physiology of man as related to that of other mammals and of lower vertebrates. Lectures and demonstrations, 4 hours. Recitations, 1 hour. Laboratory work, 3 hours. Professors CURTIS and BURTON-OPITZ, Drs. EMERSON, SHEARER, BINGHAM, and KEATOR

4—Laboratory course in special physiology. 3 hours. Professor CURTIS or Professor BURTON-OPITZ

5—Electro-physiology. Hours and work to be arranged with the Instructor, Dr. CUNNINGHAM

### Research

The laboratory is open for research, under the direction of its officers, to advanced workers.

### Equipment

The Department of Physiology possesses:

I—At the College of Physicians and Surgeons:

- (1) A laboratory for research and the preparing of demonstrations.
- (2) A small laboratory for histological research with special reference to physiological problems.
- (3) Two rooms for optical or psychological work or for photography.
- (4) Two private laboratories for professors of the department.
- (5) Two laboratories for practical instruction.
- (6) A room for recitations and for lectures and demonstrations to limited classes.
- (7) Easy access to a large lecture-room specially fitted for experimental teaching.
- (8) The Swift Physiological Cabinet, for the accommodation of a specially endowed and very full collection of apparatus of precision, mainly for research.

II—In Schermerhorn Hall:

- (1) The use of a laboratory equipped for the instruction of undergraduates.

The physiological journals are accessible to the students of the department; also the most important monographs and other books, both modern and ancient.

A skilled mechanic is employed to devote his entire working time to the care and improvement of the plant, including the making, altering, and repairing of special apparatus. He also assists in the scientific manipulations.

### Political Economy and Finance

(See page 95.)

### Political Philosophy

(See page 121.)

### Portuguese and Rumanian

(See page 183.)



## Practice of Medicine

WALTER B. JAMES, M.D., LL.D.	<i>Bard Professor of the Practice of Medicine</i>
FRANCIS P. KINNICUTT, M.D.	<i>Professor of Clinical Medicine</i>
JOHN SEYMOUR THACHER, M.D.	<i>Professor of Clinical Medicine</i>
A. BRAYTON BALL, M.D.	<i>Professor of Clinical Medicine</i>
GEORGE ROE LOCKWOOD, M.D.	<i>Instructor in Medical Diagnosis</i>
WILLIAM K. DRAPER, M.D.	<i>Instructor in Medical Diagnosis</i>
VAN HORNE NORRIE, M.D.	<i>Instructor in Physical Diagnosis</i>
FRANK W. JACKSON, M.D.	<i>Instructor in Medical Diagnosis</i>
GEORGE MONTAGUE SWIFT, M.D.	<i>Instructor in Medicine</i>
ALBERT E. SUMNER, M.D.	<i>Chief of Clinic and Instructor in Physical Diagnosis</i>
ARTHUR M. SHRADY, M.D.	<i>Instructor in Physical Diagnosis</i>
JAMES A. MILLER, M.D.	<i>Instructor in Physical Diagnosis</i>
T. STUART HART, M.D.	<i>Instructor in Physical Diagnosis</i>
HENRY WOOLFE BERG, M.D.	<i>Instructor in Infectious Diseases</i>
DAVID BOVAIRD, Jr., M.D.	<i>Tutor in Medicine</i>
NATHANIEL B. POTTER, M.D.	<i>Tutor in Medicine</i>
FRED P. SOLLEY, M.D.	<i>Tutor in Medicine</i>
EDMUND L. DOW, M.D.	<i>Clinical Assistant and Tutor in Medicine</i>
EVAN EVANS, M.D.	<i>Tutor in Medicine</i>

## Clinical Assistants

CHARLES S. FISCHER, M.D.	ROLFE FLOYD, M.D.
D. S. D. JESSUP, M.D.	LEANDER H. SHEARER, M.D.
HUGHES DAYTON, M.D.	LINSLEY R. WILLIAMS, M.D.
LEWIS F. FRISSELL, M.D.	ISAAC N. WILZIN, M.D.
JAY WILLIAM DOUNCE, M.D.	

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FRANCIS DELAFIELD, M.D., LL.D. . . . *Emeritus Professor of the Practice of Medicine*

## Courses

Courses 8 and 9 are required in the second year, Courses 1, 2, 4, 7, and 10 in the third year, Courses 1, 2, 3, 5, 6, and 10 in the fourth year, of candidates for the degree of M.D.

Attendance at the hospital clinics (Course 11) is optional in the third and fourth year.

1—The practice of medicine. Didactic lectures. 1 hour a week throughout the academic year. Professor JAMES

2—Clinical lectures on general medicine at the Vanderbilt Clinic. 2 hours a week throughout the academic year. Professors DELAFIELD and JAMES

3—Bedside instruction. In the wards of Roosevelt and Presbyterian Hospitals in sections. 6 hours a week for four weeks. Professor JAMES

4—Physical diagnosis. Practical instruction in the Vanderbilt Clinic, Roosevelt and Bellevue Hospitals. 24 lessons for each student. Drs. NORRIE, SHRADY, MILLER, and HART

5—Hospital general diagnosis. 20 lessons, 2 hours each, for each student, in the wards of Bellevue Hospital. Drs. JACKSON, LOCKWOOD, and DRAPER

6—Practical instruction in infectious diseases in the wards of the Willard Parker and Riverside Hospitals. Dr. BERG

7—Recitations in general medicine. In sections, 2 hours a week throughout the academic year. Drs. BOVAIRD, EVANS, POTTER, and SOLLEY

8—Recitations in general medicine. In sections. 1 hour a week throughout the academic year. Dr. DOW

9—Lectures and demonstrations on physical diagnosis. 1 hour a week throughout half the academic year. Dr. SUMNER

10—Clinical lectures on general medicine—Roosevelt Hospital. Professor JAMES

M. at 4 P.M. throughout the academic year.

11—Hospital clinics in general medicine—New York Hospital. Professor BALL. (See Pharmacology and Therapeutics.)

S. at 10.30 A.M. from November through April.

Presbyterian Hospital. Professors KINNICUTT and THACHER

Tu. at 4 P.M. and S. at 3 P.M.

### Provençal

(See page 180.)

### Psychology

(See page 163.)

### Public Law and Jurisprudence

(See page 127.)

### Rhetoric and English Composition

(See page 105.)

## Romance Languages and Literatures

ADOLPHE COHN, LL.B., A.M.....	Professor
HENRY ALFRED TODD, Ph.D.....	Professor of Romance Philology
CARLO LEONARDO SPERANZA, LL.B., A.M.....	Professor of Italian
BENJAMIN DURYEA WOODWARD, Ph.D.....	Professor
<sup>1</sup> LOUIS AUGUSTE LOISEAUX, S.B.....	Adjunct Professor
DANIEL JORDAN, S.B., Pd.B.....	Instructor
HENRY BARGY, A.M.....	Tutor
JOHN DRISCOLL FITZ-GERALD, A.B.....	Tutor
RICHARD T. HOLBROOK, Ph.D.....	Tutor
HENRI FRANÇOIS MULLER, A.B.....	Tutor
<sup>1</sup> CURTIS HIDDEN PAGE, Ph.D.....	Lecturer
FREDERICK CURRY OSTRANDER, A.B.....	Lecturer
ANTONIO MARINONI.....	Lecturer

The Department of Romance Languages and Literatures has charge of all the courses of instruction and research throughout the University dealing with the various languages that trace their origin to the speech of ancient Rome. To the chief of these languages, the French, Italian, and Spanish, a foremost place is naturally assigned in the work of the department; but special attention is also given, in the more advanced courses, to the remaining members of the family, such as Old and Modern Provençal, Catalan, Portuguese, Rhæto-Romance, and Rumanian, several of which are possessed of noteworthy literary and philological interest.

The department offers: (1) to students in Columbia College, practical instruction in French, Italian, and Spanish, courses in French, Italian, and Spanish literature, and introductory instruction in Romance philology; (2) to students in the School of Philosophy, advanced instruction in literature and in Romance philology, courses in the languages unprovided for in Columbia College, and also instruction of a pedagogical character; (3) to university students at large, and also to auditors, an opportunity to follow special courses; while advanced students in particular may receive the preparation necessary to meet the requirements in French made of every candidate for the degree of Ph.D. One of the aims of the department is to offer at least one course in each of the languages of the Romance group. Although no course in philology proper is offered to members of the lower classes in the College, it may be stated that from the outset care is taken to suggest the significance of the historical development of the language taught, so as to furnish a solid foundation for grammatical knowledge, and to awaken in some portion of the students a taste for philological research.

The courses at present offered are grouped under the following headings: French, Italian, Spanish, Romance Philology.

French A is prescribed for freshmen not offering French for entrance. 1 is open to freshmen and sophomores having had A or an equivalent. 2 is open to students, not seniors, having had B or 1, or an equivalent, and is pre-requisite to 3, 4, 12. D and E cannot be counted for a degree.

<sup>1</sup> Absent on leave.

Italian 1 and Spanish 1 are open to all students, not seniors, having had the equivalent of the elementary entrance requirement in French and German, but they may not both be taken at the same time. Each is pre-requisite to Courses 2 and 3 in the same language.

The following courses will not be given in 1904-05, but will be given in 1905-06 (except Italian 3 and Romance Philology 2, not given until 1906-07): French 5, 8, 10, 15, 16, Italian 2, 3, Spanish 3, Romance Philology 2, 4, 10, 15, 16.

Courses 9 and 10, under French, are given by Professor BRANDER MATTHEWS of the Department of English.

*For fuller information as to the scope of each course in the department, the work pre-requisite to it, and the credit to be given toward the several degrees for it, see the Announcement of the Division of Modern Languages, which may be obtained, without charge, from the Secretary of the University.*

### Courses in French

#### (a) Designed specially for Undergraduates

\*A—Elementary course. 3 hours. Columbia College Mr. JORDAN, Dr. HOLBROOK, and Mr. OSTRANDER; Barnard College, Professor WOODWARD, Dr. HOLBROOK, and Mr. MULLER. † Mr. OSTRANDER

\*1—Grammar, reading, composition. 3 hours. Columbia College Mr. JORDAN, and Mr. MULLER; Barnard College, Professor WOODWARD and Mr. OSTRANDER. † Mr. FITZ-GERALD

\*2—General introduction to the study of French literature; composition. 3 or 4 hours. Columbia College, Mr. JORDAN and Mr. MULLER; Barnard College, Professor WOODWARD and Dr. HOLBROOK

Open as a three-hour course to students, not seniors, who have taken Course 1, or its equivalent, and to freshmen who have passed the advanced entrance examination in French; as a four-hour course to freshmen who have passed the intermediate entrance examination in French.

\*3—Historical French—Practice in reading, writing, and speaking French. 3 hours. Columbia College, Mr. MULLER; Barnard College, Mr. JORDAN

\*4—History of French literature in the seventeenth century. 3 hours. Columbia College, Professor COHN; Barnard College, Professor WOODWARD and Mr. BARGY

12—French idioms historically considered. 2 hours. Professor TODD

D—French conversation—Elementary course. Mr. MULLER

E—French conversation—Advanced course. Mr. BARGY

The following courses, with the exception of Course C, are open only to students who have taken at least Course 4, or who can offer a satisfactory equivalent for the work therein described.

\* Starred courses are given both in Columbia College and in Barnard College.

† In Teachers College.



(b) *Designed for Seniors and Graduates*

[5—History of French literature in the eighteenth century, especially Voltaire. 3 hours. Professor COHN]

6—History of French literature in the eighteenth century, especially Montesquieu, Rousseau, and the Encyclopedists. 3 hours. Mr. BARGY

†5—History of French literature in the eighteenth century. 3 hours. Mr. BARGY

\*7—History of the French literary movement in the first half of the nineteenth century. 2 hours. Columbia College, Mr. MARINONI; Barnard College, Mr. BARGY

[\*8—History of the literary movement in France in the second half of the nineteenth century. 2 hours. Columbia College, Dr. PAGE; Barnard College, Mr. BARGY]

11—History of literary criticism in France, especially Sainte-Beuve and Brunetière. 2 hours. Mr. BARGY

[15—French literature in the sixteenth century, with special attention to Montaigne. 2 hours. Mr. BARGY]

13—Old French. Reading of selected extracts. 2 hours. First half-year only. Professor TODD

14—Old French. Reading of complete texts. 2 hours. Second half-year only. Professor TODD

(c) *Designed specially for Graduate Students*

C—Elementary course for university students. 3 hours, first half-year. 2 hours, second half-year. Mr. MULLER

9—The French dramatists of the nineteenth century. 2 hours. First half-year. Professor BRANDER MATTHEWS

Identical with first half of English 41.

[10—Molière and modern comedy. 2 hours. Professor BRANDER MATTHEWS]

Identical with English 42.

[16—Critical bibliography of French literature from the sixteenth to the nineteenth century. 2 hours. Professor COHN]

17—Methods of teaching French. 2 hours. Professor COHN

Seminar—Special topics in Romance literature. The Drama of Voltaire. 2 hours. Professor COHN

N.B.—For other advanced courses in French language and literature, see under Romance Philology.

\* Starred courses are given both in Columbia College and in Barnard College.

† Given only in Barnard College.

## Courses in Italian

*(a) Designed specially for Undergraduates*

\*1—Elementary course—Grammar, reading, composition. 3 hours. Columbia College, Mr. MARINONI; Barnard College, Professor SPERANZA

*(b) Designed for Undergraduates and Graduates*

[\*2—Italian literature of the fourteenth and fifteenth centuries. Composition. 3 hours. Professor SPERANZA]

[\*3—Italian literature from 1700 to 1790. Composition. 3 hours. Professor SPERANZA]

4—Modern Italian literature—Composition. 3 hours. Professor SPERANZA

5—Critical study of Dante's *Divina Commedia*. 2 hours. Professor SPERANZA

6—Outline history of Italian literature—Lectures and private reading. 1 hour. Professor SPERANZA

N.B.—For other advanced courses in Italian language and philology, see under Romance Philology.

## Courses in Spanish

*(a) Designed specially for Undergraduates*

\*1—Elementary course—Grammar, reading, composition. 3 hours. Columbia College, Mr. FITZ-GERALD; Barnard College, Mr. OSTRANDER

*(b) Designed for Undergraduates and Graduates*

2—General introduction to Spanish literature. Composition. 3 hours. Columbia College, Mr. FITZ-GERALD; Barnard College, Mr. OSTRANDER

[3—The novela of the golden age. 3 hours. Professor LOISEAUX]

4—The Spanish classical drama. Mr. FITZ-GERALD

*(c) Designed specially for Graduate Students*

5—History of Spanish literature—Lectures and private reading. 1 hour. Mr. FITZ-GERALD

N.B.—For other advanced courses in Spanish language and philology see under Romance Philology.

## Courses in Romance Philology

*(a) Designed for Seniors and Graduates*

1—Introduction to Romance philology. 2 hours. Professor TODD

*(b) Designed specially for Graduate Students*

Courses 2, 3, and 4 are given in successive years.

\* Starred courses are given both in Columbia College and in Barnard College.

[2—The oldest monuments of the French language. 1 hour. Professor TODD]

3—Old French dialects. 1 hour. Professor TODD

[4—The formative elements of Romance speech. 1 hour. Professor TODD]

6—French poetry of the fifteenth century. 1 hour. Dr. HOLBROOK

7—Breton lay and verse romances of the Arthurian cycle. Marie de France and Chrétien de Troyes. 1 hour. Dr. HOLBROOK

8—Old Provençal. 1 hour. Professor TODD

9—The origins of Spanish poetry. *El Poema del Cid*. 1 hour. Professor TODD

[10—The oldest monuments of the Spanish language. 1 hour. Mr. FITZ-GERALD]

11—Early Italian literature. 1 hour. Dr. HOLBROOK

12—Portuguese. 2 hours. Professor TODD

13—Rumanian. 2 hours. Professor COHN

14—The Origins of the Spanish novela. 1 hour. Mr. FITZ-GERALD

[15—The origins of the Spanish drama. 1 hour. Mr. FITZ-GERALD]

[16—Boccaccio: *The Decameron*. 1 hour. Dr. HOLBROOK]

Seminar—Contributions to a dictionary of Old-French locutions. 2 hours. Professor TODD

### Public Lectures

Weekly lectures in French, and occasional lectures in Italian and Spanish, open to all members of the University, are given by the members of the department and by distinguished European lecturers.

### The Romance Club

The Romance Club consists of all the instructors and advanced students in the department. At its meetings, which take place on the 2d and 4th Tuesdays of every month, in Room 300, West Hall, an account is given of the most important articles on the Romance languages and literatures in the recent French, English, German, Italian, and Spanish periodicals; new books are discussed, letters from absent instructors and former students in the department are read, etc. The meetings are partly of a social character, and are intended to bring instructors and students into closer personal relations.

### Equipment

The Library of Columbia University is well supplied with French, Spanish, and Italian works, as well as with works upon Romance philology. Its list of periodicals of interest for students in the department is especially rich. The Library has also complete sets of the

most important series and collections, such as the Altfranzösische Bibliothek, Romanische Bibliothek, publications of the Modern Language Association, publications of the Société des anciens Textes français, Histoire littéraire de la France, Ausgaben und Abhandlungen aus dem Gebiete der romanischen Philologie, Jahrbuch für romanische und englische Sprachen, etc.

### French Societies

Two societies have been organized for the purpose of fostering the use of the French language among the members of the University, viz., the *Société Française de l'Université Columbia*, which admits only men and the *Société Française de Barnard College*, which admits only women. They give performances of French plays. The following plays have been presented in recent years: Scribe and Legouvé, *Bataille de Dames*; Jules Moinaux, *Les deux Sourds*; Meilhac and Halévy, *L'Eté de la Saint-Martin*; Tristan Bernard, *L'Anglais tel qu'on le parle*; Eugène Labiche, *Les Vivacités du Capitaine Tic*, etc.

### Surgery

JOSEPH A. BLAKE, M.D.....	Professor
GEORGE E. BREWER, M.D.....	Professor of Clinical Surgery
ROBERT F. WEIR, M.D.....	Professor of Clinical Surgery
CHARLES MCBURNEY, M.D.....	Professor of Clinical Surgery
ANDREW J. MCCOSH, M.D., LL.D.....	Clinical Lecturer
FRANK HARTLEY, M.D....	Professor of Clinical Surgery and Instructor in Operative Surgery
FRANCIS H. MARKOE, M.D.....	Professor of Clinical Surgery
CHARLES T. POORE, M.D.....	Clinical Lecturer
ROBERT ABBE, M.D.....	Clinical Lecturer
LUCIUS W. HOTCHKISS, M.D.....	Clinical Lecturer and Instructor
WILLIAM B. COLEY, M.D.....	Clinical Lecturer and Instructor
JOHN B. WALKER, M.D.....	Clinical Lecturer
BERN B. GALLAUDET, M.D.....	Instructor
CHARLES N. DOWD, M.D.....	Instructor
EDWARD M. FOOTE, M.D.....	Instructor
WALTON MARTIN, M.D.....	Instructor
CARLETON P. FLINT, M.D.....	Instructor
FORBES HAWKES, M.D.....	Instructor
CLARENCE A. MCWILLIAMS, M.D.....	Instructor
CHARLES H. PECK, M.D.....	Instructor
PERCY R. TURNURE, M.D.....	Chief of Clinic and Instructor
EUGENE POOL, M.D.....	Instructor
ADRIAN V. S. LAMBERT, M.D.....	Instructor
WARREN S. BICKHAM, M.D....	Assistant Instructor in Operative Surgery
ALFRED S. TAYLOR, M.D....	Assistant Instructor in Operative Surgery
JAMES C. AYER, M.D. ....	Assistant Instructor in Operative Surgery
A. EMIL SCHMITT, M.D.....	Assistant Instructor in Operative Surgery



*Clinical Assistants*

ROWLAND COX, JR., M.D.

WILLIAM DARRACH, M.D.

JAMES H. KENYON, M.D.

HENRY H. M. LYLE, M.D.

A. C. PRENTICE, M.D.

JAMES I. RUSSELL, M.D.

WILLIAM T. BULL, M.D., *Emeritus Professor of Surgery***Courses**

Courses 2 and 10 are required, in both the third and fourth years, of candidates for the degree of M.D.; Courses 3 and 9 in the third year only, and Courses 1, 5, and 6 in the fourth year. Course 8 is required in the latter half of the second year. Course 4 is optional in the fourth year. For Courses in Genito-Urinary Diseases see under Clinical Instruction, page 89.

Attendance at the hospital clinics of Professors BLAKE, WEIR, and BREWER is required; at other clinics attendance is optional.

1—Surgical pathology, general and regional surgery—Didactic lectures. 2 hours a week. Professor BLAKE

2—Clinics in general surgery at the Vanderbilt Clinic. 2 hours, M. and Th. at 12. Professors BLAKE and BREWER

3—Minor surgery and bandaging—Practical instruction at the Vanderbilt Clinic, and the out-patient department, Roosevelt Hospital, 24 lessons for each student. Drs. TURNURE and FLINT

4—Operative surgery upon the cadaver—Practical instruction to sections of the class. Each student performs for himself upon the cadaver the principal operations, including the ligation of arteries, amputations, resections, and the removal of parts. Special attention is paid to operation upon the abdominal viscera. 7 to 12 lessons for each student. Professor HARTLEY, Drs. BICKHAM, TAYLOR, SCHMITT, and AYER

5—Practical instruction in surgery to classes of 20 members each in the wards of Bellevue Hospital, the Syms Operating Theatre, Roosevelt Hospital, the wards of the Presbyterian Hospital, and the wards of the City Hospital, 20 lessons. Professor BREWER, Drs. GALLAUDET, HOTCHKISS, FLINT, HAWKES, MCWILLIAMS, PECK, and FOOTE

6—Practical instruction in the surgery of children at St. Mary's Free Hospital for Children, to classes of 20 members, once a week for two months for each student. Dr. DOWD

7—Practical instruction in the mechanical treatment of hernia at the Hospital for the Ruptured and Crippled, to sections of the class, second half of fourth year. Dr. COLEY

8—Lectures and recitations in surgical pathology. Two lectures and one recitation per week in latter half of the second year. Dr. COLEY

9—Recitations in general and regional surgery. Two recitations per week to sections of the class. Drs. POOL and LAMBERT

## 10—HOSPITAL CLINICS:

Roosevelt Hospital—Th. at 11.00 A.M., Professor BLAKE; S. at 3.15 P.M., Professors WEIR and BREWER; Tu. at 4.15 P.M., for sections. Professor BREWER

New York Hospital—S. at 11.15 A.M. from Oct. to Feb., Professor MARKOE; and 11.15 A.M., from Feb. to May, Professor HARTLEY

St. Luke's Hospital—Th. or F. at 2.30 P.M. Professor MARKOE and Dr. ABBE

Presbyterian Hospital—Tu. at 3.30 P.M. throughout the academic year. Dr. McCOSH

Hospital for the Ruptured and Crippled—Tu. and F., 8.30–9.30 A.M. Professors GIBNEY and BULL and Dr. COLEY. Tu., Th., and S., 1–3 P.M. Dr. WHITMAN

St. Mary's Free Hospital for Children—Th., 10.30–11.30 A.M. Dr. POORE. F. at 2.30 P.M. Dr. DOWD

## Zoölogy

EDMUND B. WILSON, Ph.D., LL.D.....	<i>Professor</i>
HENRY F. OSBORN, Sc.D., LL.D.....	<i>Da Costa Professor</i>
THOMAS H. MORGAN, Ph.D.....	<i>Professor of Experimental Zoölogy</i>
BASHFORD DEAN, Ph.D.....	<i>Professor of Vertebrate Zoölogy</i>
GARY N. CALKINS, Ph.D.....	<i>Professor of Invertebrate Zoölogy</i>
JAMES H. MCGREGOR, Ph.D.....	<i>Lecturer in Vertebrate Zoölogy</i>
HENRY E. CRAMPTON, Ph.D.....	<i>Professor in Barnard College</i>
WILLIAM E. KELLICOTT, Ph.D.....	<i>Tutor in Barnard College</i>
PAULINE H. DEDERER, A.B.....	<i>Assistant in Barnard College</i>

Detailed information regarding the purpose and scope of the courses and the equipment of the laboratories is given in the circular of information issued by the biological departments, for which application should be made to the Secretary of the University.

Course 2 is open to juniors and seniors in Columbia College, counting as four (shorter course) or six (longer course) points towards the degree of A.B.

Courses 3, 16, and 17 are open both to seniors in Columbia College and to graduates, and count towards the degree of A.B. as follows: Course 3, six points; Courses 16 and 17, two points each.

Courses 3 to 27 are open to graduates, and may all count towards the higher degrees with the exception of Courses 16 and 17. Course 3, however, may not be counted as part of the major work towards the Ph.D. degree, and may not be counted as graduate work if previously taken as an undergraduate course.

The following are the usual general requirements (given as a guide to students), subject to modification in special cases. A major course for the M.A. degree requires, in addition to the dissertation, the equivalent of two one-day courses for one year; for example, Course 5 (a

two-day course), Courses 8, 18, and 25 (one-day courses), or any one of these, with any two of Courses 6, 7, 9, 10, 19, 21-24, 26, 27 (one-day half-year courses). A minor is approximately one half the major.

A Ph.D. major requires, in addition to the dissertation, a minimum of two one-day courses for two years. A minor is in general equivalent to an M.A. major; but in the case of students who have not taken Course 3 as undergraduates, this course may constitute one half the requirement, the remaining half comprising any one of the full-year courses or any two of the half-year courses as above.

Courses 2 and 3 are given separately at Barnard College by Professor CRAMPTON and Dr. KELLCOTT; all other courses are open to women, excepting 16 and 17.

### Undergraduate Courses

2—Elementary biology (zoölogy). The foundation of all the higher courses. Introductory to morphology and physiology, and to the general principles of biology. A year's course, divided into a shorter (2 lectures, 4 hours laboratory) and a longer (3 lectures, 6 hours laboratory) course, the latter including histology and embryology. Professors WILSON, DEAN, MORGAN and CALKINS, Dr. MCGREGOR

### Intermediate Courses

Pre-requisite: Course 2 or an equivalent.

3—General zoölogy. General zoölogy, including embryology, of vertebrates and invertebrates; facts and principles of general morphology, classification, development, distribution, evolution, and ecology. An optional course in mammalian dissection may be taken by prospective medical students as part of this work. 3 lectures, 6 hours laboratory work, throughout the year. Professors DEAN and CALKINS, Dr. MCGREGOR

16—Practical histology. Comparative study of tissues and organs with especial reference to histological technique. Supplementary to Course 3, as additional preparation for courses in medicine or biology. 3 hours a week throughout the year.

17—Practical embryology. Comparative study of development, especially of vertebrates, with particular reference to embryological technique. Supplementary to Course 3 as additional preparation for courses in medicine and biology. 3 hours a week throughout the year. Under the direction of Professors WILSON and DEAN

### University Courses

Pre-requisites : Courses 2 and 3 or an equivalent.

5—Comparative zoölogy. This course directly continues the work of Courses 2 and 3. Critical examination of the morphology and development of vertebrates and invertebrates, with especial reference

to problems of classification and phylogeny. 10 hours (2 days) a week throughout the year.

a. Zoölogy of invertebrates, first half-year. Professors WILSON and CALKINS

b. Zoölogy of vertebrates, second half-year. Professor OSBORN and Dr. MCGREGOR

Either half of this course may be taken separately.

6—Cellular embryology. A critical study of the general problems of embryology, with especial reference to the internal factors of development. 1 lecture a week, with reading, conferences, and specially arranged laboratory work, during the second half-year. Professor WILSON

7—Cellular biology. Structure and functions of the cell. Cytological technique. 1 day a week during the second half-year. Professor WILSON

8—Mammals, living and fossil. A study of the structure, evolution, and classification of the Mammalia. 6 hours (1 day) a week throughout the year. Professor OSBORN

The latter part of this course is given in the American Museum of Natural History.

9—Fishes, living and fossil. Morphology and phylogenetic relations of the sub-classes and orders of fishes. 1 lecture a week with reading and demonstrations during half a year. Professor DEAN

10—The Protozoa. Classification, morphology, and physiology of unicellular organisms in relation to modern theories of biology. 1 lecture and 2 hours laboratory a week during the second half-year. Professor CALKINS

11—Advanced biology. Individual study of special biological problems. Original investigation. The time varies in different cases.

15—Sanitary biology. A general study of the Protozoa and other microscopic forms in their relations to sanitary science. Biological examination of drinking waters. Methods and results. Selected readings. Lecture and laboratory work. 3 hours a week during the second half-year. Professor CALKINS

Designed for students in Civil Engineering, Sanitary Science, and Chemistry.

18—Comparative embryology. General facts and principles of animal development, with especial reference to comparative organogeny. 1 day a week throughout the year. Professors DEAN and CALKINS

19—The protochordates—Morphology and embryology of the protochordate groups and allied forms with special reference to the problems of vertebrate descent. Lectures and laboratory work. 1 day a week during the first half-year. Dr. MCGREGOR



20—The statistical study of variation (given in coöperation with the Department of Anthropology) — Lectures, essays, discussions, and laboratory work, on the characteristic features of variability and methods of treatment by modern statistical research. 2 lectures (Professor BOAS) and 2 hours laboratory work (Professor CRAMPTON). Elementary course (Anthropology 2) in the first half-year, and advanced course (Anthropology 8) in the second half-year.

21—Experimental and physiological morphology, with especial reference to the reactions of organisms to stimuli. 1 lecture a week, with readings and conferences, during the first half-year. Professor CRAMPTON

22—The Enterocœla—Morphology and embryology of the Proso-pygia and Echinoderma, with critical discussion of their relationship to other invertebrates and to the protochordates. 1 lecture and 5 hours laboratory work a week in the second half-year. Professor CRAMPTON

23—The sense-organs of invertebrates—Comparative morphology and physiology of the primitive organs of sense. 1 lecture a week with demonstration and readings, second half-year. Professor CALKINS

24—Experimental study of evolution (with especial reference to the statistical study of variation and inheritance). 1 lecture a week, with readings and conferences during the second half-year. Professor CRAMPTON

25—Experimental zoölogy. A general discussion of growth, reproduction and the transformation of species as affected by external conditions. 1 lecture a week, with readings, conferences, and the practical study of special problems, throughout the year. Professor MORGAN

26—Regeneration. A discussion of the special phenomena and general problems of the regenerative processes in plants and animals. 1 lecture a week, with the practical study of special problems, during the first half-year. Professor MORGAN

27—Experimental embryology (parallel with Course 6). A discussion of the general phenomena of development, with especial reference to the external factors. 1 lecture a week, during the second half-year. Professor MORGAN

JOURNAL CLUB—Reports and discussions of recent literature by members of the staff, graduate students, and others. 1 hour a week throughout the year. Under direction of the staff.

SEMINAR—Critical discussion of selected topics by members of the staff and graduate students. Subject and time are specially arranged.

UNIVERSITY BIOLOGICAL LECTURES—A course of lectures on general topics, given, as a rule, each year, by members of the staff and eminent specialists from other institutions. These lectures form the basis of the Columbia Biological Series, edited by Professors OSBORN and WILSON

### Laboratories, Libraries, and Equipment

The zoological laboratories on the upper floor of Schermerhorn comprise a large general undergraduate laboratory, three graduate laboratories, and eight rooms for private research, besides special rooms for supplies, aquaria, and preparation. There are also a commodious lecture-room, a library, and a seminar room. The laboratories are well equipped with optical instruments, microtomes, and other apparatus for advanced work. The teaching collections include a series of the Mediterranean and American marine types, the injected vertebrate series of Fric and Muller, a set of standard and specially prepared charts and wax models, and a variety of living animals and plants contained in fresh-water and marine aquaria.

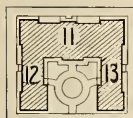
The departmental library, a part of the University library kept in the laboratory, the gift of Charles H. Senff, Esq., is a memorial to the late Dr. John I. Northrop. It embraces sets of the standard biological works and includes the journals and a rapidly increasing collection of special monographs. A fund is available for the purchase of literature needed in connection with the special researches of students. Forty-three of the current biological journals are subscribed for.

Important adjuncts to zoological work are offered by the American Museum of Natural History, the Bronx Zoological Garden, the New York Aquarium, and by the marine biological laboratories at Wood's Hole, Mass., and Cold Spring Harbor, L. I. The University has hitherto subscribed to one half of the university table at the Naples Zoological Station. An investigator's table is held at the Wood's Hole laboratory, and the John D. Jones scholarship is available at the Cold Spring Harbor laboratory.

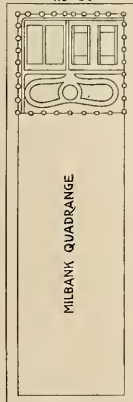
**DYCKMAN FUND**—The interest of a fund of \$10,000, established by the late Isaac M. Dyckman, Esq., is available annually for the encouragement of biological research, and may be used for special grants to advanced students, investigators, or lecturers, or for purchases of books and apparatus.



- 1 LIBRARY
- 2 COLLEGE
- 3 FAYERWEATHER
- 4 SCHERMERHORN
- 5 HAVEMEYER
- 6 ENGINEERING
- 7 UNIVERSITY
- 8 WEST
- 9 EARL
- 10 SOUTH
- 11 MILBANK
- 12 FIJKE



119<sup>th</sup> ST

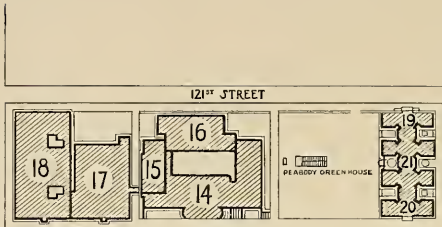


MILBANK QUADRANGLE

CLAREMONT AVENUE

BROADWAY

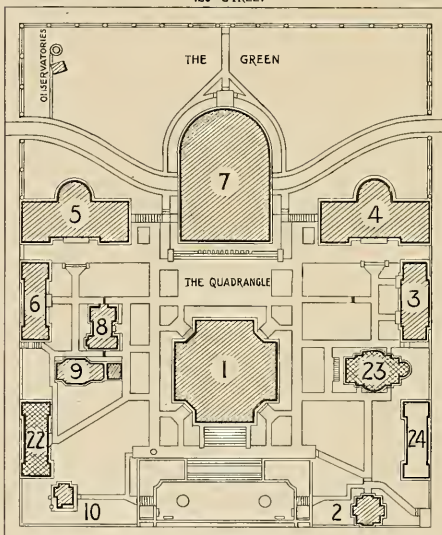
COLUMBIA UNIVERSITY  
QUADRANGLE TRACK



121<sup>st</sup> STREET

120<sup>th</sup> STREET

PEABODY GREEN HOUSE



THE GREEN

THE QUADRANGLE

116<sup>th</sup> STREET

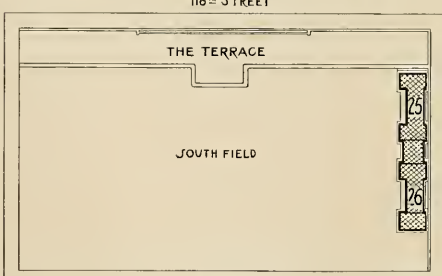
119<sup>th</sup> ST.

118<sup>th</sup> ST.

117<sup>th</sup> ST.

AMSTERDAM AVENUE

- 13 BRINCKERHOFF
- 14 MAIN BLDG TEACHERS COLLEGE
- 15 MILBANK CHAPEL
- 16 MACY MANUAL ARTS
- 17 PHYSICAL EDUCATION
- 18 HORACE MANN SCHOOL
- 19 EMERSON HALL
- 20 LOWELL HALL
- 21 WOMEN'S DORMITORY
- 22 MINES
- 23 ST. PAUL'S CHAPEL
- 24 JOURNALISM
- 25 HARTLEY HALL
- 26 LIVINGSTON HALL



THE TERRACE

SOUTH FIELD

114<sup>th</sup> STREET

115<sup>th</sup> ST.



SCALE  
0 50 100 150 200

COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK  
THIS PLAN DOES NOT INCLUDE THE COLLEGE OF PHARMACY  
OR THE MEDICAL SCHOOL BUILDINGS





# ENTRANCE EXAMINATIONS

## Committee

Professor CLARENCE H. YOUNG, *Chairman*  
Professor RICHARD E. DODGE  
Professor MORTIMER L. EARLE  
Professor GEORGE S. HUNTINGTON  
Professor CASSIUS F. KEYSER  
Professor EDMUND H. MILLER  
Professor JULIUS SACHS  
Professor CALVIN THOMAS

## GENERAL STATEMENT

There are no examinations for admission to the Schools of Law, Political Science, Philosophy, and Pure Science, or for admission to the graduate courses under the Faculties of Applied Science and Teachers College. For the requirements for admission to these departments, see the separate announcements of the Schools and Faculties concerned.

Examinations for admission to Columbia College, Barnard College Teachers College (Collegiate Course), the College of Physicians and Surgeons, and the Schools of Applied Science and Architecture are held twice each year, in June, on the date set by the College Entrance Examination Board, and in September on the Monday of the week preceding that during which the University opens. In 1905 they will begin on June 19 and September 18, respectively.

In June, 1905, the entrance examinations of Columbia University will be those of the College Entrance Examination Board of which Columbia University is a member. These examinations will be held June 19-24.

Candidates are admitted to the several colleges and schools of the University on the numerical ratings of the College Entrance Examination Board, which are accepted without change. A uniform passing mark is, however, determined by the action of the respective Committees on Admission.

In September, 1904, the entrance examinations of Columbia University will be conducted by the Columbia University Committee on Entrance Examinations and will be held only at the University. The College Entrance Examination Board at present holds no examinations in September.

As the requirements are subject to modification, candidates should obtain the special announcement of Entrance Examinations which will appear in February.

**APPLICATION FOR EXAMINATION**

Every candidate for examination is required to file an application for examination.

For the examinations in June, 1905, the application must be filed with the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y. Applications for examination in New England, in the Middle States, or in Maryland must be filed on or before June 5. Applications for examination elsewhere in the United States or in Canada must be filed on or before May 29. Applications for examination outside of the United States and Canada must be filed on or before May 15. Candidates filing their application later than the dates named do so at their own risk. Requests for blank forms of application should be addressed to the Secretary of the College Entrance Examination Board and should be accompanied by return postage.

For the examinations in September, 1905, candidates for admission to Columbia College, the College of Physicians and Surgeons, or the Schools of Applied Science and Architecture should send their applications by mail to the Registrar of Columbia University; candidates for admission to Barnard College should send their applications to the Registrar of Barnard College; and for Teachers College, to the Registrar of Teachers College. Applications must be filed on or before September 11. Requests for blank forms of application should be addressed to the Secretary of Columbia University.

**EXAMINATION FEE**

Every application for examination in June must be accompanied by a fee of \$5 in the form of a postal order, express order, or draft on New York, to the order of the *College Entrance Examination Board*, for all candidates examined at points in the United States and Canada, and \$15 for all candidates examined at points outside of the United States and Canada.

Every application for examination in September must be accompanied either by a fee of \$5 in the form of a postal order, express order, or draft on New York, to the order of *Columbia University*, by a receipt from the Bursar for an examination fee previously paid, or by the receipt issued by the Secretary of the College Entrance Examination Board for the June examinations of the same year.

If a late application is accepted either by the College Entrance Examination Board or by the University Committee on Entrance Examinations, a second fee of \$5 is charged to the candidate making such late application.

In every case a candidate who has paid the examination fee will be furnished with a receipt. This receipt should be carefully preserved. It must be presented by the candidate to the Supervisor in charge of the examinations which he attends as evidence that he is entitled to be admitted to the same. No candidate will be admitted to the Sep-

tember examinations upon the receipt of the College Entrance Examination Board, unless that receipt bears the certification of the Registrar of Columbia University, of Barnard College, or of Teachers College that the candidate's application has been filed.

#### DIVISION OF EXAMINATION

A candidate may take examinations in June (but not in September) of the year preceding that in which he proposes to enter the University. Such examinations are known as preliminary examinations. At his preliminary examinations a candidate may, with the approval of his principal instructor, offer any subject or lettered (or numbered) part of a subject (see Definitions of Requirements, page 194).

In the year in which he purposes to enter the University, a candidate may divide his examinations between June and September in whatever manner he may wish, and he may offer again in September any subject in which he may have failed at the June examinations.

The results of an entrance examination are allowed to stand to the credit of a candidate for sixteen months, but not longer.

#### PLACES OF EXAMINATION

In June, 1905, entrance examinations will be held at a large number of widely distributed points.

A list of the places at which the examinations are to be held will be published about March 1st, and may be obtained from the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York City, N. Y. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the College Entrance Examination Board not later than February 1st.

In September, 1905, examinations for admission to Columbia University will be held only at the University.

#### EXAMINATION SUBJECTS

Columbia University recognizes the following examination subjects, which may be offered for admission to one or more of the colleges and schools included in the University, each subject counting for a specific number of points as indicated below:

English.....	3	Advanced Greek <sup>1</sup> .....	1
Elementary French.....	2	“ History <sup>1</sup> .....	1
“ German.....	2	“ Latin <sup>1</sup> .....	1
“ Greek.....	3	“ Mathematics.....	1
“ History.....	2	“ Physics <sup>1</sup> .....	1
“ Latin.....	4	Botany.....	1
“ Mathematics.....	3	Chemistry.....	1
“ Physics.....	1	Drawing.....	1
“ Spanish.....	2	Physiography.....	1
Intermediate French.....	1	Zoölogy <sup>1</sup> .....	1
“ German.....	1		

<sup>1</sup> Candidates will be examined in this subject only in September

The combinations of subjects which may be offered for admission to the several colleges and schools are indicated in this catalogue in the part devoted to each college or school, under the heading Admission.

#### TIME-SCHEME OF EXAMINATIONS

In both June and September, 1905, entrance examinations will be conducted at Columbia University. Examinations for men will be held in the Columbia University Gymnasium; and for women, in the Barnard College Theatre.

Candidates taking these examinations must report to the Supervisor, in the examination room, fifteen minutes in advance of the first examination which they are to attend.

A schedule of the hours at which examinations in the various subjects will be held may be obtained by addressing the Secretary of the University.

#### DEFINITIONS OF REQUIREMENTS<sup>1</sup>

(Specimens of the question papers set by Columbia University may be obtained from the Registrar upon application. The question papers set by the College Entrance Examination Board are published in book form by Ginn & Company, Boston, Mass. The volumes for 1901, 1902, 1903, and 1904 are sold for sixty cents each.)

#### BOTANY<sup>2</sup> (counting one point)

The candidate should have received training by means of the laboratory method in:

The structure and the more obvious features of the life history of at least ten types among the higher seed plants chosen from the more representative families (*e. g.*, Gramineæ, Liliaceæ, Salicaceæ, Ranunculaceæ, Rosaceæ, Leguminosæ, Cruciferae, Solanaceæ, Labiatae, Compositæ). In addition to these, the following types are recommended among the remaining lower groups of plants: pine, *Selaginella*, a fern, a moss (*Polytrichum* or *Funaria*), a leafy hepatic, *Marchantia*, a mildew (*Microsphaera*), an agaric, *Vaucheria*, *Spirogyra*, and a protophyte (preferably *Sphaerella*).

Physiology. This work should cover the essential facts concerning irritability, photosynthesis, respiration, digestion, growth, and reproduction.

Ecology. The natural history of plants should receive considerable attention, and the behavior of plants toward environmental factors (especially light and moisture), dissemination, cross and

<sup>1</sup> The several subjects are stated in terms of units; the unit is a course of five periods weekly throughout an academic year of the preparatory school; the subjects are assigned units in accordance with the time required to prepare adequately upon them for college entrance.

<sup>2</sup> For a more detailed statement of the requirement in Botany the reader is referred to the definitions of the requirements published by the College Entrance Examination Board. Applications for the pamphlet containing these definitions should be addressed to the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.



close pollination, and the more important structural and physiological characteristics of plant formations (hydrophytes, halophytes, mesophytes, and xerophytes) should be included.

As evidence of proper laboratory training and of satisfactory work, the note-book of the candidate should be submitted *at the time of the examination*. The note-book must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work. Candidates desiring the return of their note-books should apply for them after the examination to the Secretary of the University. Note-books for the return of which no application is made will be preserved for one year only.

#### CHEMISTRY (counting one point)

The candidate's preparation in chemistry should include:

- a. The study of a standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.
- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises.

The following outline includes only the indispensable things which must be studied in the class-room and laboratory. The material is, for the most part, common to all elementary text-books and laboratory manuals. The order of presentation will naturally be determined by each teacher for himself.

OUTLINE—The chief physical and chemical characteristics, the preparation, and the recognition of the following elements together with their principal compounds: *oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur*, phosphorus, silicon, potassium, *sodium*, calcium, magnesium, *zinc*, copper, mercury, silver, aluminum, *lead*, tin, *iron*, manganese, chromium.

More detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds such as: water, hydrochloric acid, carbon-monoxide, carbon-dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur-dioxide, sulphuric acid, hydrogen-sulphide, sodium-hydroxide, ammonium-hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flames, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and Boyle's and Charles's laws, symbols and nomenclature, atomic theory, atomic weights, valency (in a very elementary way), nascent state, natural grouping of the elements, solution (solvents and solubility of gases and solids and liquids, saturation), strength of acids and bases, conserva-

tion and dissipation of energy, chemical energy, electrolysis. Chemical terms should be clearly understood, and the pupil should be able to illustrate and apply the ideas they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts.

A list of suitable laboratory experiments is contained in the definitions of the requirements published by the College Entrance Examination Board and may be obtained upon application to the Secretary of the Board, Post-Office Sub-Station 84, New York, N. Y.

**LABORATORY NOTE-BOOK**—Every candidate must present *at the time of his examination in chemistry* a note-book in which he has recorded the steps and the results of his laboratory experiments. A candidate who fails to present such a note-book cannot receive credit for the examination. Each note-book must contain an index of the experiments which it describes and must be endorsed by the instructor, the endorsement being written in ink on the inside of the cover. The endorsement must in effect be as follows:

I certify that this note-book is a true and original record of experiments actually performed by.....  
in the chemical laboratory of.....School  
during the year 19....  
Instructor in Chemistry.

#### DRAWING (counting one point)

A candidate must be able to draw and sketch correctly and with proper shading and accuracy of proportion a simple geometrical figure or a group of geometrical solids, or a simple piece of machinery, showing a fair knowledge of the rules of perspective and light and shade as applied in freehand sketching. A candidate must also be able to reproduce from a flat copy with enlargement or reduction in size. For candidates for the School of Architecture, the object to be copied will usually be an ornament—an anthemion or acanthus leaf—or a design of iron scrollwork; for the other Schools of Applied Science, the subject will be chosen from machinery details or geometrical constructions.

A candidate who has had a fair amount of training in drawing and wishes to be excused from a formal examination in this subject may at the time of the entrance examinations submit drawings, especially systematic sets of drawings, executed at school. They should be accompanied by a certificate from his teacher to the effect that they are the candidate's own work. If they indicate a satisfactory proficiency, they will be accepted in lieu of the examination. Drawings thus submitted should be sent to the *Secretary of Columbia University* at least two weeks before the day on which the examinations begin.

## ENGLISH (counting three points)

No applicant will be accepted in English whose work is notably defective in point of spelling, grammar, idiom, punctuation, or division into paragraphs.

- a. Reading and composition.—The candidate will be required to present evidence of a general knowledge of the subject-matter of the prescribed books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to show the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book,<sup>1</sup> properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The candidate is expected to read intelligently *all* the books prescribed. He should read them as he reads other books; he is not expected to know them minutely, but to have freshly in mind their most important parts. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

Candidates intending to take this part of the examination should read the books prescribed for the year in which they propose to submit themselves for examination in this subject.

The books prescribed for this part of the examination are as follows:

In 1905: Shakspeare's Merchant of Venice and Julius Cæsar; The Sir Roger de Coverley Papers in the Spectator; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Carlyle's Essay on Burns; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

In 1906, 1907, and 1908: Shakspeare's Merchant of Venice and Macbeth; The Sir Roger de Coverley Papers in the Spectator; Irving's Life of Goldsmith; Coleridge's Ancient Mariner; Scott's Ivanhoe and The Lady of the Lake; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

<sup>1</sup> Such exercise books should be prepared in accordance with a list of directions, to be obtained by addressing the Secretary of the University. *Exercise books should be sent to the Secretary of Columbia University not later than two weeks before the first day of the examinations.* Within ten days the teacher will be informed whether the candidate is, or is not, excused from examination on the books prescribed for reading. Exercise books will *not* be returned to the writers.

- b. Study and composition.—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon the subject-matter, the literary form, and the logical structure. The candidate may be required, in addition, to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be committed to memory. The essentials of English grammar should not be neglected in preparatory study.

The books prescribed for this part of the examination are as follows:

In 1905: Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1906, 1907, and 1908: Shakspeare's *Julius Cæsar*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essay on Addison and Life of Johnson*.

#### FRENCH

##### a. Elementary (counting two points)

THE AIM OF THE INSTRUCTION—At the end of the elementary course the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life, or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar, as defined below.

THE WORK TO BE DONE—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories,



plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: About's *Le roi des montagnes*, Bruno's *Le tour de la France*, Daudet's easier short tales, La Bédollière's *La Mère Michel et son chat*, Erckmann-Chatrian's stories, Foa's *Contes biographiques* and *Le petit Robinson de Paris*, Foncin's *Le pays de France*, Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon*, Legouv   and Labiche's *La cigale chez les fourmis*, Malbot's *Sans famille*, Mair  t's *La t  che du petit Pierre*, M  rim  e's *Colomba*, extracts from Michelet, Sarcey's *Le si  ge de Paris*, Verne's stories.

#### b. Intermediate (counting one point)

THE AIM OF THE INSTRUCTION—At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

THE WORK TO BE DONE—This should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts are: About's stories, Augier and Sandeau's *Le gendre de M. Poirier*, B  ranger's poems, Corneille's *Le Cid* and *Horace*, Copp  e's poems, Daudet's *La Belle-Nivernaise*, La Br  te's *Mon oncle et mon cur  *, Madame de S  vign  's letters, Hugo's *Hernani* and *La chute*, Labiche's plays, Loti's *P  cheur d'Islande*, Mignet's historical writings, Moli  re's *L'avare* and *Le bourgeois gentilhomme*, Racine's *Athalie*, *Andromaque*, and *Esther*, George Sand's plays and stories, Sandeau's *Mademoiselle de la Seigli  re*, Scribe's plays, Thierry's *R  cits des temps m  rovingiens*, Thiers's *L'exp  dition de Bonaparte en Egypte*, Vigny's *La canne de jonc*, Voltaire's historical writings.

### GERMAN

#### a. Elementary (counting two points)

THE AIM OF THE INSTRUCTION—At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if

called upon, by way of proving his ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions, to put into German short English sentences taken from the language of everyday life or based upon the text given for translation, and to answer questions upon the rudiments of grammar, as defined below.

THE WORK TO BE DONE—During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar—that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder*; Arnold's *Fritz auf Ferien*; Baumbach's *Die Nonna* and *Der Schwiegersohn*; Gerstäcker's *Germelshausen*; Heyse's *L'Arrabbiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern's *Höher als die Kirche*; Jensen's *Die braune Erica*; Leander's *Träumereien* and *Kleine Geschichten*; Seidel's *Märchen*; Stökl's *Unter dem Christbaum*; Storm's *Immensee* and *Geschichten aus der Tonne*; Zschokke's *Der zerbrochene Krug*.

Among the shorter plays the best available are perhaps Benedix's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Elz's *Er ist nicht eifersüchtig*; Wichert's *An der Majorsecke*; Wilhelmi's *Einer muss heiraten*. It is recommended, however, that not more than one of these plays be read. The narrative style should predominate. A good selection of reading matter for the second year would be Andersen's *Märchen*, or *Bilderbuch*, or Leander's *Träumereien*, to the extent of, say, forty pages. After that such a story as *Das kalte Herz*, or *Der*

zerbrochene Krug; then *Höher als die Kirche*, or *Immensee*; next a good story by Heyse, Baumbach, or Seidel; lastly *Der Prozess*.

**b. Intermediate** (counting one point)

THE AIM OF THE INSTRUCTION—At the end of the intermediate course the pupil should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English, paraphrased from a given text in German; to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation; and to translate and explain (so far as explanation may be necessary) a passage of classical literature taken from some text previously studied.

THE WORK TO BE DONE—The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word-order and word-formation.

The intermediate course is supposed to be the elementary course, plus one year's work at the rate of not less than four recitations a week. Suitable reading matter for the third year can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein*; Freytag's *Die Journalisten* and *Bilder aus der deutschen Vergangenheit*—for example, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouqué's *Undine*; Gerstäcker's *Irrefahrten*; Goethe's *Hermann und Dorothea* and *Iphigenie*; Heine's poems and *Reisebilder*; Hoffmann's *Historische Erzählungen*; Lessing's *Minna von Barnhelm*; Meyer's *Gustav Adolfs Page*; Moser's *Der Bibliothekar*; Riehl's *Novellen*—for example, *Burg Neideck*, *Der Fluch der Schönheit*, *Der stumme Ratsherr*, *Das Spielmannskind*; Rosegger's *Waldheimat*; Schiller's *Der Neffe als Onkel*, *Der Geisterseher*, *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen*; Scheffel's *Der Trompeter von Säckingen*; Uhland's poems; Wildenbruch's *Das edle Blut*.

**GREEK**

**Elementary** (counting three points)

**a. i. Greek Grammar.**

The common forms, idioms, and constructions, and the general grammatical principles of Attic Greek prose.

## ii. Greek Composition.

Translation into Greek of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in the two subjects immediately preceding will be based on the first two books of Xenophon's *Anabasis*.

## b. Xenophon.

The first four books of the *Anabasis*.

## c. Homer.

The first three books of the *Iliad* (omitting II, 494–end) and the constructions, poetical forms, and prosody of Homer's *Iliad*.

## f. Advanced Greek Composition.

Translation into Greek of continuous prose based on Xenophon and other Attic prose of similar difficulty.

## g. Sight Translation.

Translation into English at sight, based on prose of no greater difficulty than Xenophon's *Anabasis*.

**Advanced** (counting one point)

Candidates offering Greek as an advanced subject must present the equivalent of the course known as Greek **B** (see courses announced by the Division of Classical Philology). In Homer, for which no equivalent will ordinarily be accepted, the minimum requirement will be 1600 lines in addition to the amount offered for the elementary examination. The candidate must also offer the eight orations of Lysias in Morgan's edition, or an equivalent amount of similar Greek, and in prose composition at least twenty exercises in the writing of connected narrative prose. The exercises in Part III of Allinson's *Greek Prose Composition* will show the grade of preparation demanded. Candidates applying for examination in this subject must designate the equivalents, if any, which they wish to offer.

**HISTORY****Elementary** (counting two points)

Candidates offering history as an elementary subject may present themselves for examination upon either of the following groups. They will not be permitted to offer both of these groups as elementary subjects.

**First Group:**

1. Ancient history, including a brief introductory study of the Oriental peoples and early mediæval history to the death of Charlemagne, with due reference to art, literature, and government.
2. Mediæval and modern history, with due reference to the growth of the state-system.

**Second Group:**



3. English history, with due reference to social and political development.
4. American history, with the elements of civil government

NOTE.—For preparation in either of these groups a course of study equivalent to at least three lessons a week for two years will be needful. On examination a candidate must show such general knowledge of each field offered as may be acquired from the study of an accurate text-book of not less than three hundred pages. Since however, the examination will be so framed as to require comparison and the use of judgment rather than mere exercise of memory on the part of the pupil, it is recommended that the teacher prescribe a course of supplementary reading of not less than five hundred pages dealing with the more important periods and events in both of the historical fields offered. Geographical knowledge will be tested by requiring the location of places and movements on an outline map.

#### Advanced (counting one point)

The requirement in advanced history is intended to be an equivalent for history A—the course prescribed in Columbia College (see courses given by Department of History). The work done at school, therefore, should be substantially identical with that course. Those candidates who have taken the examination in elementary history, and desire to offer History as an advanced subject, must present themselves for examination upon the historical fields included in *that group which they did not offer as an elementary subject*. For example, if a candidate offers the first group as the elementary subject, he must offer the second group as the advanced subject, and *vice versa*. The examination will pre-suppose superior ability on the part of the candidate in advanced history to understand the significance of historical events, movements, or tendencies, to discern similarities and contrasts, and to combine results.

As further evidence of proficiency, satisfactory written work, done at school and duly certified by the teacher as to independent preparation, must be submitted. This work must be presented in the form of a note-book, or bound collection of notes, containing not less than five thousand words on each historical field offered, and must show practice in at least three of the following exercises:

- (a) Notes and digests of reading outside of the text-books.
- (b) Written recitations requiring the use of judgment, and the application to new questions of knowledge already gained.
- (c) Written parallels between historical characters, events, or periods.
- (d) Brief studies of topics limited in scope, prepared outside the class-room and illustrated by some reference to contemporary material.
- (e) Historical maps or charts showing explorations, migrations, conquests, territorial changes, or social phenomena.

The written work must be sent to the Secretary of Columbia University two weeks before the entrance examination begins.

## LATIN

**Elementary** (counting four points) <sup>1</sup>*a. i. Latin Grammar.*

The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse and the subjunctive.

*ii. Latin Composition.*

Translation into Latin of detached sentences and very easy, continuous prose based upon Cæsar and Cicero.

*b. Cæsar.*<sup>2</sup>

Any four books of the Gallic War, preferably the first four.

*c. Cicero.*

Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, and the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

*d. Vergil.*

The first six books of the *Æneid* and so much of prosody as concerns accent, versification in general, and the dactylic hexameter.

*l. Advanced Latin Composition.*

Translation into Latin of continuous prose of moderate difficulty based on Cicero.

*m. Sight Translation.*

Translation into English at sight, based exclusively on prose of no greater difficulty than the easier parts of Cicero's orations.

**Advanced** (counting one point)

Candidates offering Latin as an advanced subject must present the equivalent of the course known as Latin **A** (see courses announced by the Division of Classical Philology). This course comprises the reading of Cicero's *De Senectute* and *De Amicitia*, a review of the syntax of the verb as contained in any standard grammar, and a knowledge of prose composition as represented by the second part of Daniells's *New Latin Composition*; also the reading of the first and third books of the *Odes* of Horace, with a satisfactory knowledge of the prosody.

Candidates applying for examination in this subject must designate the equivalents, if any, which they wish to offer.

<sup>1</sup> Candidates for admission to Columbia College, Teachers College, the College of Physicians and Surgeons, or the Schools of Applied Science and Architecture, who are unable to offer the whole of elementary Latin, will be permitted to offer two points from this subject. Such candidates should offer parts *a* and *c*, or *a* and *d*, except candidates for the College of Physicians and Surgeons, who should offer *a* and either *b* or *c* or *d*, as indicated above.

<sup>2</sup> Cæsar can be offered only by candidates for admission to the College of Physicians and Surgeons.

## MATHEMATICS

**Elementary** (counting three points)**a** Elementary algebra.**i.** The four fundamental operations for rational algebraic expressions.

Factoring, determination of highest common factor and lowest common multiple by factoring.

Fractions; including complex fractions, ratio and proportion.

Linear equations, both numerical and literal, containing one or more unknown quantities.

Problems depending on linear equations.

Radicals, including the extraction of the square root of polynomials and of numbers.

Exponents, including the fractional and negative.

**ii.** Quadratic equations, both numerical and literal.

Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations.

Problems depending upon quadratic equations.

The binomial theorem for positive integral exponents.

The formulas for the  $n$ th term and the sum of the terms of arithmetic and geometric progressions, with applications.

It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

**c.** Plane geometry.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle.

The solution of numerous original exercises, including loci problems.

Applications to the mensuration of lines and plane surfaces.

**Advanced** (counting one point)**d.** Solid geometry.

The usual theorems and constructions of good text-books; including the relations of planes and lines in space; the properties and measurements of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.

The solution of numerous original exercises, including loci problems.

Applications to the mensuration of surfaces and solids.

## e. Trigonometry.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles.

Proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas.

Solution of trigonometric equations of a simple character.

Theory and use of logarithms (without the introduction of work involving infinite series).

The solution of right and oblique triangles, and practical applications, including the solution of right spherical triangles.

## PHYSICS

## Elementary (counting one point)

The candidate's preparation in physics should include:

- a. The study of a standard text-book supplemented by the use of many varied numerical problems, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws in elementary physics.
- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises distributed about as follows: mechanics 17, sound 3, heat 5, light 6, electricity 9.

A list of suitable experiments in physics is contained in the definitions of the requirements published by the College Entrance Examination Board and may be obtained upon application to the Secretary of the Board, Post-Office Sub-Station 84, New York, N. Y.

**LABORATORY NOTE-BOOK**—Every candidate must present *at the time of his examination in physics* a note-book in which he has recorded the steps and the results of his laboratory experiments. A candidate who fails to present such a note-book cannot receive credit for the examination. Each note-book must contain an index of the experiments which it describes, and must be endorsed by the instructor, the endorsement being written in ink on the inside of the cover. The endorsement must in effect be as follows:

I certify that this note-book is a true and original record of experiments actually performed by.....  
 in the physical laboratory of.....School  
 during the year 19....

Instructor in Physics.



**Advanced** (counting one point)

Candidates offering physics as an advanced subject must have studied physics for a full year after satisfactorily completing the elementary requirement. The work during this time must be devoted to a more thorough and extensive study of the subjects previously covered in a general way. Besides class-work, it must include at least sixty experiments actually performed in the laboratory by the candidate. A laboratory note-book must be submitted at the time of the examination. It must contain a certificate from the teacher that it is a true record of the candidate's work. It will be returned to the candidate upon subsequent application to the Secretary of the University.

**PHYSIOGRAPHY** (counting one point)

The candidate's preparation in physiography should include the study of one of the modern text-books by Davis, Tarr, Dryer, or Gilbert and Brigham, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate.<sup>1</sup>

The candidate will be required to present at the time of his examination the original note-book in which he recorded, with dates, the steps and results of his laboratory exercises. This book, which should contain an index of subjects, must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work.

**SPANISH** (counting two points)

**THE AIM OF THE INSTRUCTION**—At the end of the course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of everyday life, or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as defined below.

**THE WORK TO BE DONE**—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) exercises containing illustrations of the principles of grammar; (4) the reading and accurate rendering into good English of from 100 to 175 duodecimo pages of graduated texts, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

During the second year the work should comprise: (1) the reading

<sup>1</sup> For a more detailed statement of the requirement in physiography the reader is referred to the definitions of the requirements published by the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.

of from 250 to 400 pages of modern prose from different authors; (2) practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax; (4) mastery of all but the rare irregular verb-forms and of the simpler uses of the moods and tenses; (5) writing Spanish from dictation.

Suitable texts for the second year are: Valera's *El pájaro verde*; Alarcón's *El final de Norma*, *El capitán Veneno*; Valdès's *José*; Galdós's *Doña Perfecta*; *Marianela*; Padre Isla's version of *Gil Blas*; Carrion and Aza's *Zaragüeta*.

#### ZOÖLOGY (counting one point)

In general, zoölogy is not recommended as an entrance subject unless the study has been preceded or accompanied by that of physics and chemistry, which form the most desirable groundwork for collegiate courses in biology. The entrance examination in zoölogy is designed to test, first, the candidate's practical acquaintance with the natural history, structure, and relationships of some of the leading types of animals, and, second, his knowledge of the more essential facts of physiology.

*Practical Zoölogy.* A practical examination on at least ten common animal types, and the presentation by the candidate of a laboratory note-book, certified by the teacher as evidence of a laboratory course actually performed. Examples of the types suggested are the frog, fish, mollusk, insects, crustaceans, annelid, starfish, hydroid (*Hydra*), and protozoan. In the examination less weight is laid on a knowledge of anatomical *minutiæ* than on the ability to recognize the specimen and its allies, to indicate its relationships, and to point out the leading features of its life-history, organization, and physiology.

*Elementary Physiology.* The nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensory functions; and the structure of the various organs by which these operations are performed. Martin's *Human Body* (briefer course), forms a suitable basis for this work; but teachers are recommended as far as possible to correlate the physiology of man and the higher animals with that of the lower forms studied in the course on practical zoölogy.

## REGULATIONS FOR THE UNIVERSITY DEGREES

### Master of Arts and Doctor of Philosophy

1. Candidates for the degrees of Master of Arts and Doctor of Philosophy must hold a baccalaureate degree in arts, letters, philosophy, or science, or an engineering degree, or an education equivalent to that represented by one of these degrees, such equivalent to be passed upon in every case by the Standing Committee on Higher Degrees.

Every candidate for a higher degree must present to the Dean of each school in which he intends to study satisfactory evidence that he is qualified for the studies he desires to undertake.

2. Candidates for the degrees of Master of Arts and Doctor of Philosophy must pursue their studies in residence for a minimum period of one and two years, respectively.<sup>1</sup> The year spent in study for the degree of Master of Arts is credited on account of the requirement for the degree of Doctor of Philosophy. Residence at other universities may be credited to a candidate. In certain cases and by special arrangement, time exclusively devoted to investigation in the field will be credited in partial fulfilment of the time required. The satisfactory completion, at not less than four Summer Sessions, of courses of instruction having in all a value of eight hours' work a week for one academic year will be accepted as fulfilling the minimum requirement of one year's University residence. No degree will be conferred upon any student who has not been in residence at Columbia University for at least one year.

3. Each student who declares himself a candidate for the degrees of Master of Arts and Doctor of Philosophy, or either of them, shall, immediately after registration, designate one principal or major subject and two subordinate or minor subjects.

Candidates are expected to devote at least one half of their time throughout their course of study to the major subject. In the case of laboratory courses this implies two days a week, or its equivalent, as determined by each department. Each minor subject is intended to occupy approximately one fourth of the time during one year for the degree of Master of Arts, and during two years for the degree of Doctor of Philosophy.

Minor subjects may not be changed except by permission of the

<sup>1</sup> In practice three years of University residence subsequent to the attainment of the Bachelor's degree, or its equivalent, are usually necessary to obtain the degree of Doctor of Philosophy.

Dean, to be given only on the written recommendation of the heads of the departments from which and to which the change is desired; major subjects may not be changed except by a special vote of the Faculty in each case.

A candidate for the degree of Master of Arts or Doctor of Philosophy may, with the consent of the Dean of the Faculty concerned and of the professor in charge of his major subject, select both minor subjects within the same department, and may divide a minor subject, taking parts of two subjects germane to his major subject.

4. The subjects from which the candidate's selection must be made are:

#### UNDER THE FACULTY OF PHILOSOPHY

I. *Major Subjects*: 1. Philosophy; 2. psychology; 3. anthropology; 4. education; 5. linguistics; 6. comparative literature; 7. classical archæology and epigraphy; 8. Greek language and literature, and, incidentally, Grecian history; 9. Latin language and literature, and, incidentally, Roman history; and the following, *including in each case the study of both the language and the literature*: 10. English; 11. Germanic; 12. Romance; 13. Sanskrit (with Pāli) and Iranian; 14. Semitic; 15. Chinese. Nos. 1, 2, 3, 4, 6, 10, 11, 12, 13, 14, and 15 count each as the equivalent of a major and one minor subject.

II. *Minor Subjects*: 1. Philosophy; 2. psychology; 3. anthropology; 4. education; 5. linguistics; 6. comparative literature; 7. Greek; 8. Greek archæology; 9. Latin; 10. Roman archæology; 11. Sanskrit; 12. Iranian; 13. English; 14. Anglo-Saxon; 15. Gothic; 16. Germanic philology; 17. German language and literature; 18. Scandinavian languages and literatures; 19. Romance philology; 20. French language and literature; 21. Spanish language and literature; 22. Italian language and literature; 23. Hebrew; 24. Arabic; 25. Assyrian; 26. Syriac; 27. Ethiopic; 28. Semitic epigraphy; 29. Turkish; 30. Armenian; 31. Chinese; 32. Coptic.

When a candidate in his choice of subjects under this Faculty designates any subject as his major and first minor, as permitted by the Regulations, no subdivision of that general subject may be chosen by him as a second minor, provided, however, that, with the recommendation of the Dean and the head of the department concerned, by a special vote of the Committee on Higher Degrees, to be taken in every such case, a candidate may be allowed to choose all his subjects under one department. The choice of subjects made by a candidate must in every case have the approval of the Dean and the head of the department under which the major subject is taken before being finally allowed.

#### UNDER THE FACULTY OF POLITICAL SCIENCE

Group I.—History and political philosophy: 1. European history; 2. American history; 3. ancient history; 4. political philosophy.

Group II.—Public law and comparative jurisprudence: 1. Consti-



tutional law; 2. international law; 3. administrative law; 4. comparative jurisprudence.

Group III.—Economics and social science: 1. Political economy and finance; 2. sociology and statistics.

In his choice of subjects under this Faculty, the candidate whose major subject lies within its jurisdiction is limited by the following rules:

A candidate for the degree of Doctor of Philosophy must select one minor subject within the group which includes his major subject.

A candidate for the degree of Master of Arts or Doctor of Philosophy must select one minor subject outside of the group which includes his major subject.

The choice of subjects must in every case be approved by the Dean.

To be recognized as a major subject for the degree of Master of Arts, the courses selected must aggregate at least two hours per week throughout the year, and must also include attendance at a seminar. For a minor subject for the degree of Master of Arts the attendance at a seminar is not required.

To be recognized as a minor subject for the degree of Doctor of Philosophy, courses must be taken, in addition to the requirements for a minor subject for the degree of Master of Arts, aggregating two hours weekly. All the courses and seminars offered in the major subject must be taken by the candidates for the degree of Doctor of Philosophy.

#### UNDER THE FACULTY OF PURE SCIENCE

1. Anatomy; 2. astronomy; 3. bacteriology; 4. botany; 5. chemistry; 6. geodesy; 7. geology; 8. lithology; 9. mathematics; 10. mechanics and electro-mechanics; 11. mineralogy; 12. palæontology; 13. physics; 14. physiology; 15. zoölogy; 16. physiological chemistry; 17. civil and sanitary engineering; 18. electrical engineering; 19. mechanical engineering; 20. metallurgy; 21. mining.

In his choice of subjects under this Faculty, the candidate is limited by the regulation that no two of the subjects selected may be in any one department, unless the consent of the Faculty thereto shall have first been obtained.

A minor subject may be taken in the same department as the major, but no two minors may be taken in the same department, unless the consent of the Faculty thereto shall be first obtained.

5. Each student is given a registration book, to be obtained at the office of the Registrar, which shall be signed by the professor or instructor in charge of each course of instruction or investigation at the beginning and end of the course. This registration book is to be preserved by the student as evidence of courses attended, and shall be submitted to the Deans of the several Faculties at the end of each year, that the proper credit may be given for the courses attended, after which the registration book becomes the permanent property of the student.

6. (a) Students desiring to be examined for the degree of Master of Arts, Master of Laws, or Doctor of Philosophy shall make application to the Registrar of the University on or before April 1 of the academic year in which the examination is desired, on blanks provided by the University.
- (b) Immediately after April 1, the Registrar shall notify the Deans of the Faculties of Political Science, Philosophy, and Pure Science, of the names of students applying for examination for higher degrees in each of these three Faculties, together with the subjects in which the candidate offers himself for examination and the degree for which he is a candidate.
- (c) The examination shall be held under the authority and direction of the several Deans.
- (d) The results of such examinations shall be reported as soon as possible to the Registrar, who shall transmit to the Secretary of the University Council the record of each successful candidate for a degree, as soon as such record is complete.

7. Each candidate for the degree of Master of Arts shall present an essay on some topic previously approved by the professor in charge of his major subject. This essay must be presented not later than May 1 of the academic year in which the examination is to take place. The Faculty of Political Science requires this essay to be a paper read during the year before the seminar of which the candidate is a member.

When the essay has been approved, the candidate shall file with the Registrar of the University a legibly written or typewritten copy of it. This copy is to be written on firm, strong paper, eleven by eight and a half inches, and a space of one and a half inches on the inner margin must be left free from writing. The title-page of every such essay shall contain the words: "Submitted in partial fulfilment of the requirements for the degree of Master of Arts, in the Faculty of \_\_\_\_\_, Columbia University."

8. Each candidate for the degree of Doctor of Philosophy shall present a dissertation embodying the result of original investigation and research on some topic previously approved by the professor in charge of the candidate's major subject. When such dissertation has been approved by the said professor, it shall be printed by the candidate, under the direction of the Dean of the Faculty, and one hundred and fifty copies shall be delivered to the Registrar of the University, unless, for reasons of weight, a smaller number be accepted by special action of the University Council. On the title-page of every such dissertation shall be printed the words: "Submitted in partial fulfilment of the requirements for the Degree of Doctor of Philosophy, in the Faculty of \_\_\_\_\_, Columbia University."

Each dissertation shall contain upon its title-page the full name of the author; the full title of the dissertation; the year of imprint, and, if a reprint, the title, volume, and pagination of the publication from which it was reprinted; and there shall be printed and appended to

each dissertation a statement of the educational institutions that the author has attended, and a list of the degrees and honors conferred upon him as well as the titles of his previous publications.

All dissertations for the degree of Doctor of Philosophy must be submitted for approval not later than April 1 of the academic year in which examination is desired.

In case of excessive cost and delay in publishing a dissertation which has been approved by a department, and accepted for publication by a reputable journal or scientific or literary association, the degree of Doctor of Philosophy may be conferred before the publication is completed. The facts in every such case concerning the publication are to be certified to the University Council by the Faculty concerned.

In cases where advanced degrees are conferred before the copies of the dissertation are deposited with the Registrar, the diploma shall be withheld until such copies shall be received.

In the Faculties of Philosophy and Pure Science, the dissertation is not required to be printed until after the examination of the candidate.

In the Faculty of Political Science, the examination on the major and minor subjects and on languages, but not on the dissertation itself, may be held before the printed dissertation is submitted.

The Faculty of Pure Science requires the dissertation to be printed in the size and form of the *Annals*, or the *Memoirs*, of the New York Academy of Sciences, according to the nature of the subject.

9. Every candidate for the degree of Doctor of Philosophy must pass, besides such other examinations as the Faculty may require, an oral examination on all three subjects, and must defend his dissertation, in the presence of the entire Faculty, or of so many of its members as may desire or as may be designated by the Faculty to attend. The ability to read at sight French and German, to be certified in each case by the Dean of the Faculty concerned, is required by all the Faculties. The Faculty of Political Science also requires the ability to read Latin at sight; and candidates are examined on Latin, French, and German, as upon other subjects, in the presence of the Faculty.

In the Faculty of Philosophy, admission as a regular student or as a candidate for the degree of Master of Arts does not admit to candidacy for the degree of Doctor of Philosophy. Only those students are admitted to candidacy for the degree of Doctor of Philosophy who (1) are recommended for such candidacy by the heads of the departments in which their major and minor subjects of study lie; (2) are certified as to their ability to read French and German by the heads of those departments; (3) are certified as to their ability to read Latin by the head of that department; provided that students whose major subject is psychology, anthropology, or education, shall not be required to meet this test when it is certified by the professor in charge of their major subject that an ability to read Latin is not necessary for the proper prosecution of their researches.



The examinations in Latin, French, and German, prescribed for admission to candidacy for the Doctor's degree under the Faculty of Philosophy, shall be passed at least one academic year before the candidate presents himself for the degree.

10. Students holding college degrees, who shall have completed with marked distinction one of the regular courses in the School of Law, the School of Medicine, the School of Mines, the School of Chemistry, the School of Engineering, or the School of Architecture, may be recommended for the degree of Master of Arts; provided that in each case the candidate, while pursuing his professional course, shall have taken additional work, under the direction of the Faculty of Philosophy, the Faculty of Political Science, or the Faculty of Pure Science, to the extent of a minor subject, as recognized by the Faculty concerned, for not less than one academic year.

Every such candidate shall present an essay on some topic previously approved by the professor in charge of his minor subject. This essay in all other respects shall conform to the requirements as stated in Section 7 of these Regulations.

11. No student shall continue to be a candidate for the degree of Doctor of Philosophy for a longer period than three years from the time he ceases to be in residence, nor for a longer period than six years from the time of his initial registration for an advanced degree.

### Other Degrees

*The authorities of the University have under consideration the establishment of a non-professional course of instruction of three years, parallel to that leading to the degree of Bachelor of Laws, and of a graduate course of one or more years open to such as have completed either of the three-year courses in law. Appropriate degrees will be awarded for the successful completion of such new courses. Announcement of the new courses and of the regulations governing the award of such degrees will be made as soon as arrangements therefor are completed.*



## COLUMBIA COLLEGE

The following departments are represented in the Faculty

ASTRONOMY	LATIN
BOTANY	MATHEMATICS
CHEMISTRY	MECHANICS
ENGLISH	PHILOSOPHY AND PSYCHOLOGY
GEOLOGY	PHYSICS
GERMANIC LANGUAGES AND LITERATURES	POLITICAL ECONOMY
GREEK	ROMANCE LANGUAGES AND LITERATURES
HISTORY	SEMITIC LANGUAGES
INDO-IRANIAN LANGUAGES	ZOOLOGY

### Officers of the Faculty

#### *Ex-Officio Members of the University Council*

J. H. VAN AMRINGE, Ph.D., L.H.D., LL.D. . . . .	<i>Dean (term expires 1905)</i>
H. T. PECK, Ph.D., L.H.D., LL.D. . . . .	<i>Secretary</i>

### Standing Committees

COMMITTEE ON CURRICULUM AND SCHEME OF ATTENDANCE		COMMITTEE ON ADMISSIONS	
Professor Van Amringe, <i>Chairman</i>		Professor Thomas, <i>Chairman</i>	
" Cohn		" Hallock	
" Perry		" McCrea	
" R. S. Woodward		" Odell	
" Woodbridge		" Keyser	
" Thomas			
COMMITTEE ON SCHOLARSHIPS		COMMITTEE ON HONORS	
Professor Van Amringe, <i>Chairman</i>		Professor Kemp, <i>Chairman</i>	
" Peck		" Jackson	
" Lord		" Fiske	

### The Faculty

NICHOLAS MURRAY BUTLER, LL.D., <i>President and Professor of Philosophy and Education</i>
J. HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D. . . . . <i>Professor of Mathematics, and Dean</i>
CHARLES F. CHANDLER, Ph.D., M.D., LL.D., Sc.D. . . . . <i>Mitchill Professor of Chemistry</i>

- JOHN W. BURGESS, Ph.D., LL.D. *Ruggles Professor of Political Science and Constitutional Law*
- JOHN KROM REES, E.M., Ph.D. . . . . *Rutherford Professor of Astronomy*
- RICHARD J. H. GOTTHEIL, Ph.D. . . . . *Professor of Rabbinical Literature and the Semitic Languages*
- EDWIN R. A. SELIGMAN, LL.B., Ph.D., LL.D. . . . . *McVickar Professor of Political Economy*
- H. T. PECK, Ph.D., L.H.D., LL.D. . . . . *Anthon Professor of the Latin Language and Literature, and Secretary*
- WILLIAM H. CARPENTER, Ph.D. . . . . *Villard Professor of Germanic Philology*
- JAMES MCKEEN CATTELL, Ph.D. . . . . *Professor of Psychology*
- EDWARD DELAVAN PERRY, Ph.D., LL.D. . . . . *Jay Professor of Greek*
- WILLIAM A. DUNNING, Ph.D., LL.D. . . . . *Lieber Professor of History and Political Philosophy*
- A. V. WILLIAMS JACKSON, L.H.D., Ph.D., LL.D. . . . . *Professor of Indo-Iranian Languages*
- ADOLPHE COHN, LL.B., A.M. . . . . *Professor of the Romance Languages and Literatures*
- EDMUND B. WILSON, Ph.D., LL.D. . . . . *Professor of Zoölogy*
- JAMES F. KEMP, E.M. . . . . *Professor of Geology*
- WILLIAM HALLOCK, Ph.D. . . . . *Professor of Physics*
- BRANDER MATTHEWS, D.C.L., Litt.D., LL.D. . . . . *Professor of Dramatic Literature*
- ROBERT S. WOODWARD, C.E., Ph.D., LL.D. . . . . *Professor of Mechanics and Mathematical Physics*
- HENRY A. TODD, Ph.D. . . . . *Professor of Romance Philology*
- GEORGE R. CARPENTER, A.B. . . . . *Professor of Rhetoric and English Composition*
- THOMAS SCOTT FISKE, Ph.D. . . . . *Professor of Mathematics*
- HAROLD JACOBY, Ph.D. . . . . *Professor of Astronomy*
- JAMES RIGNALL WHEELER, Ph.D. . . . . *Professor of Greek*
- JAMES C. EGBERT, Ph.D. . . . . *Professor of Roman Archæology and Epigraphy*
- CALVIN THOMAS, LL.D. . . *Gebhard Professor of the Germanic Languages and Literatures*
- CARLO L. SPERANZA, B. ès L, A.M. . . . . *Professor of Italian*
- LUCIEN M. UNDERWOOD, Ph.D. . . . . *Torrey Professor of Botany*
- WILLIAM MILLIGAN SLOANE, Ph.D., LL.D. . . . . *Seth Low Professor of History*
- CHARLES E. PELLEW, E.M. . . . . *Adjunct Professor of Chemistry*
- HERBERT GARDINER LORD, A.M. . . . . *Professor of Philosophy*
- NELSON GLENN MCCREA, Ph.D. . . . . *Professor of Latin*
- CLARENCE H. YOUNG, Ph.D. . . . . *Adjunct Professor of Greek*
- JAMES MACLAY, Ph.D. . . . . *Adjunct Professor of Mathematics*
- GEORGE CLINTON DENSMORE ODELL, Ph.D. . . . . *Adjunct Professor of English*

HENRY ROGERS SEAGER, Ph.D.....	<i>Adjunct Professor of Political Economy</i>
FREDERICK J. E. WOODBRIDGE, A.M., LL.D..	<i>Johnsonian Professor of Philosophy</i>
CASSIUS JACKSON KEYSER, Ph.D....	<i>Adrain Professor of Mathematics</i>
GEORGE L. MEYLAN, A.M., M.D.....	<i>Adjunct Professor of Physical Education</i>
LOUIS AUGUSTE LOISEAUX, B.S.....	<i>Adjunct Professor of the Romance Languages and Literatures</i>
WILLIAM ADDISON HERVEY, A.M....	<i>Adjunct Professor of the Germanic Languages and Literatures</i>
RUDOLF TOMBO, Jr., Ph.D.....	<i>Adjunct Professor of the Germanic Languages and Literatures</i>
GEORGE N. OLCOTT, Ph.D.....	<i>Adjunct Professor of Latin</i>
JOHN DEWEY, Ph.D., LL.D.....	<i>Professor of Philosophy</i>

### ADMISSION

The Committee on Admissions has charge of everything relating to this subject.

1. Candidates for admission to the freshman class, at its formation, must be at least fifteen years of age; and for admission to advanced standing there is required a corresponding increase of age; but this rule may be dispensed with when, in the opinion of the Committee on Admissions, there are sufficient reasons to justify its relaxation.

Every candidate must, before admission, present a certificate of good moral character from his last teacher, or from some citizen in good standing, and students from other institutions must bring certificates of honorable dismissal.

### Requirements for Admission

2. Every candidate for admission to the freshman class is required at the entrance examinations (see page 191) to offer subjects amounting to fifteen points <sup>1</sup> as indicated below:

The candidate *must* offer

Counting in points

English (page 197).....	3
Elementary Mathematics (page 205).....	3

The candidate may offer any of the following subjects without other restriction than that to offer an advanced subject will involve offering either at the same time or earlier the corresponding elementary subject.

<sup>1</sup> The several subjects are stated in terms of units: the unit is a course of five periods weekly throughout an academic year of the preparatory school; the subjects are assigned units in accordance with the time required to prepare adequately upon them for college entrance.

Counting in points

Elementary Greek (page 201).....	3
Elementary History (page 202).....	2
Elementary Latin (page 204).....	4 <sup>1</sup>
Intermediate French (page 199).....	1
Intermediate German (page 201).....	1
Advanced Greek (page 202).....	1
Advanced History (page 203).....	1
Advanced Latin (page 204).....	1
Advanced Mathematics (page 205).....	1
Advanced Physics (page 207).....	1

The candidate may offer not more than 4 points in all from the three subjects following:

Elementary French (page 198).....	2
Elementary German (page 199).....	2
Spanish (page 207).....	2

The candidate may offer not more than 2 points in all from the five subjects following:

Botany (page 194).....	1
Chemistry (page 195).....	1
Elementary Physics (page 206).....	1
Physiography (page 207).....	1
Zoölogy (page 208).....	1

For information regarding the time and place at which entrance examinations are held, regulations regarding division of examinations, examinations outside of New York, application blank, and examination fee, see pages 191-194.

### Certificates in Lieu of Entrance Examinations

3. Columbia College accepts, in lieu of its entrance examinations, no credentials of any sort except the Regents' Academic Diploma<sup>2</sup> and the certificates of universities and colleges in good standing. These credentials are accepted only for the ground which they specifically cover.

All certificates offered in lieu of entrance examinations must be sent to the chairman of the College Committee on Admissions at least one week before the first day of the entrance examinations. The names

<sup>1</sup> Candidates may also offer a part of elementary Latin, counting it for two points (see page 204)

<sup>2</sup> For 1904-05 every Regents' Academic Diploma is considered as covering the entrance requirement in English. No Regents' Academic Diploma will be accepted in lieu of the entrance examination in French unless it covers the complete two-years' high-school course in French recognized by the Regents. Similarly, no Regents' Academic Diploma will be accepted in lieu of the entrance examination in German unless it covers the complete two-years' high-school course in German. A Regents' Academic Diploma, to be accepted in lieu of all parts of the examination in Latin or of the examination in Greek, must specifically cover, among other things, sight-reading and prose composition. In the case of the natural sciences, a Regents' Academic Diploma will not be accepted for the required laboratory work.



of those candidates whose certificates are accepted in whole or in part will be posted on the bulletin board at least one day in advance of the beginning of the examinations.

*The separate pass-cards, the Academic Equivalent Certificate, and the several other certificates issued by the Regents of the State of New York are not accepted by the College in lieu of examinations.*

*The certificates of the preparatory or high-school departments of universities and colleges are not accepted by the College.*

Candidates must take the regular entrance examinations in the subjects in which their certificates are not deemed adequate.

### Report of Entrance Examinations

4. The Committee on Admissions will report to the Dean, as soon as practicable after the conclusion of the entrance examinations in June, the names of those candidates who, having passed a satisfactory examination, may be admitted with or without conditions, of those who must present themselves for re-examination in September, and of those who have been rejected.

The Committee on Admissions will report to the Dean not later than one week after the conclusion of the entrance examinations in September the names of those candidates who, upon a final showing, may be admitted with or without conditions, and of those who have been rejected.

### Admission to Advanced Standing

5. Candidates for admission from other colleges, and those desiring to be admitted to advanced standing on examination, must make application in writing to the College Committee on Admissions. Proper blanks for the purpose may be obtained from the Secretary. The application should be made at least one week before the first day of the September entrance examinations.

Each candidate for admission to advanced standing must show that he has attained proficiency in the equivalent of:

1. The requirements for admission to the freshman class.
2. All the prescribed studies already pursued by the class to which he seeks admission.
3. As many elective studies as he would have pursued if he had entered the class at the beginning of the freshman year.

A candidate may be admitted notwithstanding deficiencies in some of these studies, but no candidate will be recommended for the A.B. degree until he shall have brought all his studies up to the point required for that degree.

Each candidate from another college is expected to furnish official statements of his record in his various college studies, and letters or other evidence showing the opinion of his instructors in regard to his scholarship and character. He should also submit a catalogue or announcement of the college that he leaves, in which are plainly marked

every requirement for admission and every course of instruction for which he has received credit.

No applicant will be allowed to enter the senior class as a candidate for the degree of Bachelor of Arts after October 15 in any year.

### Special Students

6. Special courses of study are offered by the College to young men, of proper age and character, who wish, without reference to any degree, to make a serious study of any subject or group of subjects. This provision, however, is not designed for students who would be unable, because of defective preparation, to secure admission to the freshman class. Candidates for admission as special students are required to present themselves at the entrance examinations and to fulfil the requirements for admission to the freshman class (see p. 217). Applications for admission should be made at least one week before the first day of the entrance examinations. Proper blanks for this purpose may be obtained from the Secretary.

*Applications from men of maturity, who have been several years out of school or college and have had a valuable educative experience in practical life, will be considered on their merits as a class by themselves.*

7. Once admitted to the College, special students will be allowed to select their own courses of study subject to the general approval of the Dean, and to the particular approval, for each course selected, of the head of the department in which the course is given. The courses selected by a special student must, however, occupy at least ten hours a week.

In the courses which they severally pursue special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students.

*Except for reasons of weight, satisfactory to the Committee on Admissions, no one will be received as a special student who is less than eighteen years of age, or who has, within ten months of the time of his application, been rejected as a regular student, or has, within that period, become deficient as a regular student. No one will be admitted as a special student who wishes merely to pursue elementary subjects included among the requirements for admission to the College or Schools of Applied Science.*

### Entrance Conditions and Probation

8. Students admitted conditionally to the freshman class at the beginning of the academic year will be held under probation till the end of the first half-year.

Not later than Tuesday of the second week following the Christmas holidays, the head of each department in which students on probation attend will make to the Dean a special report of progress in the case of each such student. The Dean will, as soon as practicable, and not later than the end of the half-year, decide as to each student on proba-

tion, whether he shall be dropped from the roll of the College, or have his period of probation extended.

9. If any member of the freshman class shall receive at the mid-year or the concluding examination a grade in scholarship of C, or higher, in any department, this grade will be regarded as removing any entrance condition that may be recorded against him in that department.

Any member of the freshman class conditioned at entrance must make good by examination every condition that is not removed under the operation of the foregoing provision. He should present himself for this purpose at the entrance examinations in June or September of the year following his admission.

### **Matriculation, Registration, and Enrolment**

(See page 22)

For the regulations prescribed for all students see page 22. The following regulations are also prescribed for students in the College:

10. Registration and enrolment at a later date than that specified in the general Regulations are permitted to candidates who obtain the written consent of the Dean, satisfactory cause for the delay having been shown. Such permission, however, does not relieve the student from the payment of the late registration fee.

College students are cautioned against confusing the filing of elective blanks with registration. These are two distinct and separate processes.

Students who, by reason of any technicality, can not register definitely within the time limits, should file a tentative registration record on or before the last day of registration, if they wish to avoid the additional fee.

Credit for attendance will date from the opening of the academic year. All students will be held strictly accountable for absences incurred owing to enrolment at a later date, unless excused by the Dean.

### **Fees**

(See page 23)

### **Scholarships**

(See page 41)

## **PROGRAM OF STUDIES**

11. Candidates for the degree of Bachelor of Arts are required to present courses making a total of sixty points. In connection with the announcement of each course is a statement of the number of hours per week of lectures and of laboratory work. The successful completion of each hour of lectures or recitations throughout an academic year counts as one point toward the sixty required for the degree of A.B. The successful completion of two hours of laboratory or other

practical work counts as one point. Not less than twelve, nor more than eighteen, points may be presented in any one year without the consent of the Dean. No one-hour course, unless taken in connection with and as a supplement to a cognate course, will be allowed. To the end of his junior year, a student must always pursue not fewer than three courses having a value of at least three points each. The required gymnasium work of the freshman and sophomore years must also be satisfactorily completed.

12. The courses necessary to meet the above requirement may be chosen by the student at will from the courses announced each year, subject to the restrictions named in connection with each course and to the general restriction that the following courses are prescribed:

### Prescribed Courses

#### *English:*

English A, 3 hours, freshman year. }

English B, 2 hours, sophomore year. }

Prescribed for all students.

#### *Latin and Greek:*

Latin A or B, or Greek B, 3 hours, freshman year.

Prescribed for students who offer Elementary Latin and Greek, but not Advanced Latin or Greek, for admission.

Latin A or B, 3 hours, freshman year.

Prescribed for students who offer Elementary Latin, but not Greek or Advanced Latin for admission.

Latin X, 5 hours, freshman year. }

Latin Y, 3 hours, sophomore year. }

Latin Z, 3 hours, junior year. }

Prescribed for students who do not offer Elementary Latin for admission.

#### *French:*

French A, 3 hours, freshman or sophomore year, as the Dean may permit or prescribe.

Prescribed for students who do not offer Elementary French for admission.

#### *German:*

German A, 3 hours, freshman or sophomore year, as the Dean may permit or prescribe.

Prescribed for students who do not offer Elementary German for admission.

#### *Mathematics:*

Mathematics A, 3 hours, freshman year.

Prescribed for students who do not offer Advanced Mathematics for admission.

#### *History:*

History A, 3 hours, sophomore year.

Prescribed for students who do not offer Advanced History for admission.



*Psychology:*

Psychology A, 3 hours, first half junior year.

Prescribed for all juniors.

*Economics:*

Economics A, 3 hours, second half junior year.

Prescribed for all juniors.

*Natural Science:*

Physics 1, 3 hours; or Chemistry 1, 4 hours; or Botany 1, 4 hours. Prescribed for students who do not offer a natural science for admission; may be taken in any one of the four years.

*Physical Education:*

Certain work under this department will be required of both freshmen and sophomores. The details will be found in the *Announcement of the Division of Physical Education for 1904-05*.

### Elective Courses

13. In making out their list of electives, students are confined to the courses given as open to them in the departmental statements contained in the *Announcement of Columbia College*, except under the provisions of Sections 18-19 below. They must avoid conflicts of courses at the same hour, and for that purpose should consult the hour-scheme. They are advised to examine the several divisional announcements in which the statement of the scope of each course is given more fully than is possible in the *Announcement*, and further to consult the heads of departments during their office hours.

Students just entering must give notice, at the time of registration, of the elective courses chosen by them.

Students in the College are required, on or before Friday, September 1, to give notice to the Dean, through the Registrar, upon blanks to be procured at the office of the Registrar, of their choice of elective courses. Special attention is called to this requirement, in order to avoid confusion and possible embarrassment to the student.

14. Change of electives will be allowed by the Dean, for reasons of weight stated to him in writing, up to but not later than the fourth Saturday in October for the first term and the third Saturday in February for the second term.

15. No student may take more than four hours' work, not including laboratory work or drawing, on the same day, or more than six hours a week in any department, without the consent of the Dean.

16. The Dean and the head of the department concerned may permit

any study prescribed for the degree of Bachelor of Arts to be taken as an elective in an earlier year than that for which it is set down.

17. Elective courses are offered subject to withdrawal if elected by fewer than three students.

18. By permission of the Dean of the College, the first-year course in the School of Medicine or the School of Law may be elected by members of the senior class who became students in the College not later than the beginning of their junior year. Any student taking the first-year course in the School of Medicine will be required to pay a fee of \$100 in addition to his fee as a student in the College.

The full first-year course in the School of Law and the full first-year course in the School of Medicine, for students of the senior class taking either of them and counting the same towards the degree of Bachelor of Arts, are counted as fifteen points, and fifteen points only, towards that degree. Any student who elects either of these first-year courses, and is allowed to count the same towards the degree of Bachelor of Arts, shall be required to complete satisfactorily every study in the course elected before he can be recommended for the degree.

19. By permission of the Dean of the College, a student may elect in his junior or senior year certain technical or professional courses in the Schools of Applied Science and Architecture and in Teachers College. Each such course in the Schools of Applied Science requires an extra fee, the amount of which is stated in connection with the announcement of every such course, with the proviso that the sum of all such extra fees to be paid by any student in any one academic year shall not exceed \$100. The amount of each fee may be learned by consulting the Statement of Fees, p. 23.

### Graduation Theses

20. Each candidate for graduation shall, with the advice and consent of the instructor in charge of one of his courses, select for thesis, or essay, some subject connected with that course, and, on or before December 15, communicate his selection to the Dean for approval. Under the guidance of this instructor, he shall complete the thesis, and submit it to the Dean on or before April 2. It shall be judged by the head of the department in which the subject lies. In his return to the Dean upon a graduation thesis the examining officer shall report:

A grade as to (1) substance; (2) style; (3) general merit.

Each thesis shall contain, as appendix, a list of authorities that have been used. It shall contain at least two thousand (2000) words, unless there be special reasons for reduced length; and it shall be retained as the property of the College, in charge of the Librarian.

If the thesis of any student be rejected, he shall not be recommended for graduation.

For further details see the *Announcement of Columbia College*.

## EXAMINATIONS IN COURSE

21. Two examinations of all the classes are held every year, one beginning on the last Monday but one of the first half-year (for 1905, January 16), and the other on the Monday of the third week preceding Commencement (for 1905, May 15). The former is called the mid-year examination; the latter the final examination. Any department may omit the mid-year examination in some or all of its courses for seniors, notice of such intended omission to be sent to the Dean on or before December 1 preceding. It is the privilege of any department to announce that, in some or all of its courses, the results of the mid-year examination will be tentative only, the grades given after the final examination applying to the whole year.

22. Any student who shall have been absent from more than ten per cent. of the exercises in any course during a single half-year shall not be entitled to examination in that course.

Every student is expected and required to keep an account of his absences, and, should he exceed the limit allowed in any course, he must present to the Dean, during the week preceding the stated examination, satisfactory explanation of all his absences, or be debarred from the examination.

23. The mid-year and final examinations provided for in section 21 are *stated examinations*. Delinquent examinations (see paragraph (a) below) and examinations held by special permission of the Dean are *special examinations*, the fee for each of which (except as noted in paragraph (d) of this section) is five dollars, which must be paid by the student before being admitted to the examination.

(a) Delinquent examinations, to enable deficient or debarred students of all classes to make good their deficiencies, are held within the two weeks immediately preceding the opening of the College in the Fall; and in addition, for members of the senior class only, during the first week in May.

(b) Except as provided for in paragraph (a), a student found deficient in any subject at a stated examination will not be allowed a special examination in that subject.

(c) Except as provided for in paragraph (a), a student absent from a stated examination in any subject will not be allowed a special examination in that subject, provided that, if the absence was due to unavoidable circumstances, the Dean may, on proper written certification to him of the circumstances, grant a special examination.

(d) If a student has special examinations in several subjects, either at the delinquent examinations or under one permit from the Dean specifying each subject, one fee of five dollars shall cover them all.

## Proficiency and Deficiency

24. At the close of every half-year, and after the stated examination has been held, each officer of instruction will report to the Dean a list



of all the students in his several courses, classifying them in five grades, namely, A, B, C, D, F, according as their work in the course has been excellent, good, fair, poor, or a failure. Each student's record, up to his senior year, will be transmitted to his parents by the Dean at the close of each half-year.

A student reported in grade F in any course, or a student absent from a mid-year or final examination in any course, will be accounted deficient in that course, and required to pass another examination in it at the time fixed for the examination of debarred and deficient students, unless, for reasons of weight, the Dean shall otherwise direct.

A student reported at the close of the first half-year in grade D in any course must be warned by the instructor in charge thereof that his work is so unsatisfactory that, unless improved, it may result in his being found deficient at the close of the second half-year.

A student reported in grade D in two or more courses may be required by the Dean to take the courses a second time or to substitute other courses.

No student may be advanced from the freshman to the sophomore class until he shall (a) have satisfied all the requirements for entrance, and (b) have not less than nine points to his credit.

No student may be advanced from the sophomore to the junior class until he shall have not less than twenty-four points to his credit.

No student may be advanced from the junior to the senior class until he shall (a) have completed the required gymnasium work, and (b) have accomplished all the studies of the course specifically required in the first three years, and (c) have not less than forty-five points to his credit.

25. For advancement under the foregoing sections, a student must be reported in a grade above D in the greater number of the courses giving him the requisite total of points; failing which he shall be dropped from the roll of his class, unless the Dean, for reasons of weight, shall otherwise determine. A student dropped from the roll of his class will not be permitted to attend any of the exercises of the said class without the consent of the Dean, given for reasons of weight; but he may enter the next succeeding class and pursue the course or courses in which his deficiency exists, or, in case of elective courses and with the consent of the Dean, other course or courses equivalent thereto in time, and present himself for examination in such course or courses with that class. No student dropped from the roll of his class under the provisions of this section will be accepted as a special student.

Should a student fail of advancement in two successive years, he shall be dropped from the roll of the College, unless, for reasons of weight, the Dean shall otherwise determine. No student dropped from the roll of the College under the provisions of this section will be accepted as a special student.

In all cases, the requirements for advancement from class to class must be satisfied before the beginning of the academic year.



### General Honors

*General Honors* are of two grades, Highest General Honors and General Honors, and are assigned not later than July 1 of each year, without application, under the following conditions:

*Highest General Honors* are awarded to students whose work in the previous college year entitles them to high academic distinction.

*General Honors* are assigned to students of marked excellence who have not won Highest General Honors.

### Departmental Honors

Departmental Honors are awarded at the end of the second year, the end of the third year, and the end of the course, and are known respectively as Sophomore Honors, Junior Honors, and Final Honors.

Sophomore Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, comparative literature, and in mathematics.

Junior Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, comparative literature, mathematics, physics and chemistry, and in history.

Final Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, comparative literature, mathematics, physics and chemistry, zoölogy and botany, history, economics and social science, and in philosophy.

(a) No scholarship, prize, or other honor will be awarded in any course or department to any student who is reported in a grade below C in any other course or department during the year in which he is a candidate for such scholarship, prize, or honor.

(b) Each student to whom honors may be awarded in any department will receive, at Commencement or as soon thereafter as practicable, a certificate of such award, under the seal of the College and bearing the signatures of the President and the Dean.

For particulars, see the special *Announcement of Columbia College*.

### Prizes

(See page 41)

### Honorable Dismission

An honorable discharge shall always be granted to any student in good standing who may desire to withdraw from the College; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian, given in writing to the Dean.

Students are requested, in case of withdrawal during the academic year, to file a notice thereof at the office of the Registrar, who will on application provide the blank form for this purpose.

For any further information the special *Announcement of Columbia College* may be consulted.

## REGISTER OF STUDENTS

### Columbia College

#### SENIORS—CLASS OF 1905

ANSPACHER, HARRY.....	(Mhtn) New York City
BARRICK, SAMUEL LLOYD.....	Jersey City, N. J.
BARROWS, WILLIAM BURNETT.....	(R) New York City
BIERMANN, FREDERICK ELLIOTT.....	Decorah, Iowa
BROWN-SERMAN, STANLEY.....	Raquette Lake, N. Y.
CLARK, THOMAS F.....	(Mhtn) New York City
COHEN, NORMAN MONTEFIORE.....	(Mhtn) New York City
CUTHEL, CHESTER WELDE.....	(Mhtn) New York City
DONOVAN, WILLIAM JOSEPH.....	Buffalo, N. Y.
FALION, GEORGE MARCUS.....	(Bklyn) New York City
FERRIS, MORRIS DOUW.....	(Mhtn) New York City
FINDLEY, EARL ROEMER.....	(Mhtn) New York City
FRANK, JOSEPH JULIUS.....	(Mhtn) New York City
GILLESPIE, JAMES PACKARD.....	Tarrytown, N. Y.
GOLDWATER, EDWARD.....	(Mhtn) New York City
GREEN, EDWARD HENRY.....	(Mhtn) New York City
HAGEMAN, GEORGE RUSSELL.....	(Mhtn) New York City
HAGER, WARREN OTIS.....	South Deerfield, Mass.
HAMILTON, GUY AMIS.....	Geneva, Neb.
HARPER, HAROLD.....	(Mhtn) New York City
HARRISON, MEYER S.....	(Mhtn) New York City
HEATON, JAMES PUTNAM.....	(Bklyn) New York City
HEUSER, CHARLES FREDERICK.....	(Mhtn) New York City
HIGBIE, JOHN ROBBINS.....	(Mhtn) New York City
HYMAN, MAURICE.....	(Mhtn) New York City
JOSEPHS, IRVING SAMUEL.....	(Mhtn) New York City
KAYE, BENJAMIN MARK.....	(Mhtn) New York City
KLABER, WILLIAM.....	(Mhtn) New York City
KLEEBOERG, GORDON SAUL PHILIP.....	(Mhtn) New York City
KLEIN, FREDERIC EDWARD.....	(Mhtn) New York City
LEROY, ROBERT.....	(Mhtn) New York City
LEVY, BENJAMIN MORRIS.....	(Mhtn) New York City
LEWIS, ROBERT CARPENTER.....	Fargo, N. D.
LEWISOHN, JULIUS ARTHUR.....	(Mhtn) New York City
LONDON, MONTE.....	(Mhtn) New York City
LUBLIN, CURTIS.....	(Mhtn) New York City
McKENZIE, DAVID ANDREW.....	Newark, N. J.
MACKENZIE, ALEXANDER.....	Dobbs Ferry, N. Y.
MEDALIE, GEORGE ZERDIN.....	(Mhtn) New York City
MESSER, WILLIAM STUART.....	Jersey City, N. J.
MILLER, ELMER CRAVER.....	Glen Ridge, N. J.
MOONEY, HARRY RICH.....	(Mhtn) New York City
MORRIS, DUDLEY H.....	(Mhtn) New York City

MOTT, WALTER WESLEY.....	(Mhntn) New York City
NEWELL, WILLIAM.....	Montclair, N. J.
NOBLE, FLOYD CLARKE.....	(Mhntn) New York City
OTTEN, LEONARD FLAGGE.....	(Mhntn) New York City
PIERREPONT, R. STUYVESANT.....	(Bklyn) New York City
PODELL, DAVID LOUIS.....	(Mhntn) New York City
RAMSDELL, EDWIN GEORGE.....	(Mhntn) New York City
ROSENSON, HARRY JAMES.....	(Bklyn) New York City
ROTHSCHILD, WALTER LOUIS.....	(Mhntn) New York City
ST. GEORGE, ALBERT HARRINGTON.....	Mt. Vernon, N. Y.
SCHLACHTER, CHARLES EMIL JOSEPH.....	(Mhntn) New York City
SCHWED, HARRY.....	Somerville, N. J.
SIMONDS, WILLIAM BLACKALL, JR.....	(Mhntn) New York City
SMITH, LESLIE BREWSTER.....	Mt. Vernon, N. Y.
STINER, PHILIP AARON.....	(Mhntn) New York City
TAYLOR, JAMES ALBERT.....	Utica, N. Y.
TRALE, EDWARD LEE.....	(Bklyn) New York City
THOMAS, HAROLD LIVINGSTON REED.....	Highland Falls, N. Y.
THURSTON, EDWARD DAY, JR.....	(Mhntn) New York City
TOLINS, JOSEPH.....	(Bklyn) New York City
TOMPKINS, GRENELLE BERTRAM.....	Paterson, N. J.
TOWNSEND, STILLMAN DANA.....	Arlington, N. J.
TREAT, HUGH PETERS.....	(Mhntn) New York City
TUCKER, GEORGE WASHINGTON, JR.....	(Bklyn) New York City
VAN NOSTRAND, NORMAN W.....	(Mhntn) New York City
VREELAND, LOUIS BEACH.....	Raleigh, N. C.
WALDRON, J. LAWRENCE.....	(Bklyn) New York City
WESTPHAL, ALFRED FREDERICK.....	Michigan City, Ind.
WOOD, CHALMERS, JR.....	(Mhntn) New York City
YOUNGER, GUSTAVUS ADOLPHUS.....	(R) New York City
ZEIGER, GEORGE VREELAND.....	Montclair, N. J.

The enrolment of the following in this class has been delayed (see College Announcement of 1904-05, section 30):

BATCHELOR, CHARLES.....	(Mhntn) New York City
BLAUVELT, MARTIN EMERSON.....	Yonkers, N. Y.
BRADLEY, ROBERT HOLMES.....	(Mhntn) New York City
BURNETT, HENRY LAWRENCE, JR.....	(Mhntn) New York City
CARPENTER, WARWICK S.....	(Mhntn) New York City
COOPER, FREDERICK LINN.....	(Mhntn) New York City
CURTIS, HARLOW DUNHAM.....	Manlius, N. Y.
DAY, MARSHALL MALLORY.....	(Mhntn) New York City
FITZGERALD, FRANK THOMAS, JR.....	(Mhntn) New York City
FLOWER, HERBERT JAMES.....	Passaic, N. J.
KRAETZER, EDGAR RAYMOND.....	(Mhntn) New York City
LAMONT, JOSEPH RIGGS.....	(Bklyn) New York City
LONG, WILLIAM BAYARD.....	(Mhntn) New York City
MCDONALD, FRANK PETER.....	(Mhntn) New York City
NICHOLS, CLARENCE.....	Yonkers, N. Y.
PERKINS, ISAAC CLENDENNIN.....	(Mhntn) New York City
PIEL, WILLIAM F. J.....	(Bklyn) New York City
RIBLET, RONALD FRANK.....	(Mhntn) New York City
ROBINSON, JOSEPH PECK.....	Orange, N. J.
SAUNDERS, LEON GAMBETTA.....	Yonkers, N. Y.
SCHARPS, CHARLES E. T.....	(Mhntn) New York City
SEYMOUR, JOHN COTES, JR.....	(Mhntn) New York City
SLOSSON, STEWARD.....	(Mhntn) New York City
SPINGARN, SIEGMUND.....	(Mhntn) New York City

THOMPSON, JACOB, JR.....	State Levee, Miss.
TILT, WILLIAM AUGUSTUS.....	(Mhtn) New York City
TONNELE, JOHN LUNEAN, JR.....	(Mhtn) New York City
VAN BUREN, JOHN DASH, JR.....	(R) New York City
WEIL, JESSE.....	(Mhtn) New York City
WILLIS, ARTHUR LIVINGSTON.....	(Q) New York City
WIRÉN, OSCAR B.....	Minneapolis, Minn.
Total.....	105

## JUNIORS—CLASS OF 1906

ADAMS, RALPH ALLISON.....	(Mhtn) New York City
AMBERG, JOSHUA LOUIS.....	(Mhtn) New York City
BANGS, HENRY McCOMB.....	(Mhtn) New York City
BAUM, PHILIP.....	(Mhtn) New York City
BECKINGHAM, DANIEL FRANCIS.....	(Mhtn) New York City
BENTON, NELSON KINGSBURY.....	East Orange, N. J.
BERNHEIM, JEROME BERWIN.....	San Antonio, Texas
BERTINI, AMEDEO AUGUST.....	(Mhtn) New York City
BLUMENSTIEL, ALBERT B.....	(Mhtn) New York City
BOYLE, JOHN NEVILLE.....	(Mhtn) New York City
BRANDS, CARL.....	Paterson, N. J.
BRENNAN, WALTER JOSEPH.....	(Mhtn) New York City
BRUCE, MURRAY.....	(Bklyn) New York City
BULKLEY, KENNETH.....	(Mhtn) New York City
BURNS, GRANT.....	(Mhtn) New York City
CAMPBELL, ROBERT ERSKINE, JR.....	(Mhtn) New York City
CASAMAJOR, ROBERT.....	(Bklyn) New York City
CASWELL, WILBUR LARREMORE.....	(Bklyn) New York City
CHAMBERS, FRANK WILLIAM.....	(Mhtn) New York City
CHEADLE, ALBERT BERNARD.....	Ottumwa, Iowa
CORN, BELMONT.....	(Mhtn) New York City
CORNELL, CHARLES FLOYD.....	(Q) New York City
DECKER, WINFRED CORNWALL.....	Susquehanna, Pa.
DEIXEL, ABRAHAM.....	(Mhtn) New York City
DEVOE, WILLIAM BECK.....	(Mhtn) New York City
DICKLER, NATHAN NATHAN.....	(Bklyn) New York City
DOWNES, FLETCHER GARDNER.....	Jersey City, N. J.
EASTMAN, HENRY WESTERN.....	Roslyn, N. Y.
EASTON, KERNER.....	(Mhtn) New York City
ECHEVERRIA, FREDERICK JOHN.....	(Mhtn) New York City
ECKSTEIN, HENRY JOSEPH.....	(Mhtn) New York City
EIMER, AUGUST OTTO.....	(Mhtn) New York City
ELLIOTT, EDSALL DUBOIS.....	Catskill, N. Y.
ELSBERG, A.....	(Mhtn) New York City
EMSHEIMER, HERBERT.....	Wheeling, W. Va.
ESSEX, WILLIAM LEOPOLD.....	Nyack, N. Y.
EVANS, JOHN HINMAN.....	Montclair, N. J.
FACKENTHAL, FRANK DIEHL.....	(Bklyn) New York City
FERRARI, ROBERT ANTHONY.....	(Mhtn) New York City
FONTRIER, MICCO MULTIADDES ACHILLES.....	(Mhtn) New York City
FORD, WILLIAM ANDREWS.....	White Plains, N. Y.
FORSCH, SIDNEY S.....	(Mhtn) New York City
FOWLER, ROBERT HENRY.....	(Mhtn) New York City
GEER, WILLIAM, MONTAGUE, JR.....	(Q) New York City
GREEFF, GERHARD ERNEST HUGH.....	(Mhtn) New York City
HASTINGS, HAROLD WILLIAM.....	(Mhtn) New York City
HEIMAN, HUGO.....	Little Rock, Ark.
HIRSCHBERG, STUART.....	Newburgh, N. Y.



HOSHINO, KEN.....	Tokyo, Japan
JOSEPH, DAVID HERMAN.....	Louisville, Ky.
KAHN, MAXWELL MEYER.....	(Mhtn) New York City
KAISER, GORDON HAYM.....	(Mhtn) New York City
KEELER, FLOYD YATES.....	North Salem, N. Y.
KENDLER, JULIUS.....	(Mhtn) New York City
KRAUSS, FLETCHER IRVIN.....	East Orange, N. J.
KREHBIEL, HERMAN VALENTINE.....	(Mhtn) New York City
LEVENTRITT, LEO LITHAUER.....	(Mhtn) New York City
LIPPMANN, FRANK BENEDICT.....	(Mhtn) New York City
LODER, IRVING HOWARD.....	Port Chester, N. Y.
LUCE, FRED LESLIE.....	Villisca, Ia.
MCCARTHY, THEODORE.....	(Mhtn) New York City
MACBETH, ROBERT WALKER.....	(Bklyn) New York City
MACDONALD, CHARLES DOUGLAS.....	(Mhtn) New York City
MARSTON, JAMES PHILIP.....	Hallowell, Me.
MARWICK, ROBERT HUGH.....	Petrolia, Ont.
MAVES, ALBERT EDWARD.....	(Mhtn) New York City
MENDELSON, SAMUEL.....	(Mhtn) New York City
MILLER, S. LAWRENCE.....	Linlithgo, N. Y.
MOORE, GEORGE GELSTON.....	(Mhtn) New York City
MORRALL, CHARLES FRANCIS.....	Stafford Springs, Conn.
MYERS, ALFRED STUART.....	(Mhtn) New York City
NATHAN, ELI MORRIS.....	(Mhtn) New York City
PARDEE, HAROLD ENSIGN BENNETT.....	(Mhtn) New York City
PERRY, ROBERT MATSON.....	Denver, Col.
PETER, GEORGE WILLIAM.....	(Mhtn) New York City
PORTER, WILLIAM REDFIELD.....	(Mhtn) New York City
REJALL, ALFRED ERNST.....	(Bklyn) New York City
RICHTER, ROBERT MONTGOMERY.....	(Mhtn) New York City
ROSENTHAL, LEO ALFRED.....	(Mhtn) New York City
SCHARF, WILLIAM WILLCOX.....	(Bklyn) New York City
SCHIFFMAN, SAMUEL.....	(Mhtn) New York City
SCOTT, EARLE.....	(Q) New York City
SELIG, SAMSON.....	Atlanta, Ga.
SEME, PIXLEYKA ISAKA.....	Natal, South Africa
SICHEL, WALTER.....	(Mhtn) New York City
SILBERSTEIN, NATHAN.....	(Mhtn) New York City
SLOANE, CHARLES O'CONOR.....	South Orange, N. J.
SOLOMON, WALTER LEO.....	(Mhtn) New York City
SPENCE, KENNETH MONROE.....	(Mhtn) New York City
SPITZ, EDWARD FREDERICK.....	(Bklyn) New York City
STEINER, STANLEY HAROLD.....	(Br) New York City
STEWART, CHARLES ARTHUR.....	(Mhtn) New York City
STURGES, HENRY PEMBERTON.....	(Mhtn) New York City
STOCKTON, GUY CADWALLADER.....	(Mhtn) New York City
STOCKTON, JAMES LEROY.....	(Mhtn) New York City
THOMAS, HAROLD ALLEN.....	(Mhtn) New York City
THURLOW, JOHN NORTHROP.....	(Bklyn) New York City
WEBB, KENNETH SEYMOUR.....	(Mhtn) New York City
WELLES, FRANK CORDAY.....	(Mhtn) New York City
WIEMANN, ALBERT BERNARD.....	(Mhtn) New York City
WILLIAMS, CHARLES LAIDLAW.....	East Orange, N. J.
WOLVEN, RAYMOND.....	Bloomfield, N. J.
WORZEL, HOWARD HENRY.....	(Bklyn) New York City
WRIGHT, ERNEST HUNTER.....	(Mhtn) New York City
WRONKER, BENNO MAURICE.....	(Mhtn) New York City

The enrolment of the following in the class has been delayed (see College Announcement of 1904-05, section 30):

ASHFORTH, GEORGE.....	(Mhtn) New York City
BOGUE, PERRY DAVID.....	(Bklyn) New York City
BROWN, FRANK CORNISH.....	(Mhtn) New York City
DENZER, BERNARD SOLOMON.....	New Rochelle, N. Y.
GANTERT, CARLETON PALMER.....	(Mhtn) New York City
GORDON, CLARENCE THAYER.....	East Orange, N. J.
HOLLISTER, SAMUEL THOMSON.....	(Mhtn) New York City
ISAACS, SAMUEL STANLEY.....	(Mhtn) New York City
MAYNARD, EDWIN TAYLOR.....	(Bklyn) New York City
O'CONNELL, EDWARD JOSEPH.....	(Bklyn) New York City
STREETER, PAUL COOLIDGE.....	(Mhtn) New York City
TRIPP, PERCY BLACKFORD.....	Falls Church, Pa.
Total.....	117

## SOPHOMORES—CLASS OF 1907

AMOS, WALDO ADAMS.....	Jersey City, N. J.
APLINGTON, HORACE THURBER.....	(Mhtn) New York City
AUERBACH, IRVIN HAROLD.....	(Mhtn) New York City
BAILLY, EDWARD CASHMAN.....	(Mhtn) New York City
BANGSER, ADOLPH.....	Lebanon, Pa.
BELL, HAROLD KENNEDY.....	(Q) New York City
BERKOWITZ, LOUIS.....	(Mhtn) New York City
BETJEMANN, HENRY CARL.....	(Mhtn) New York City
BIERMAN, HENRY.....	(Mhtn) New York City
BLECHMAN, JOSEPH PETER.....	(Mhtn) New York City
BLUM, JULIUS.....	(Mhtn) New York City
BONDY, EUGENE LYONS.....	(Mhtn) New York City
BRADLEY, EDWARD F.....	(Mhtn) New York City
BRANDAU, GEORGE JULIUS.....	(Bklyn) New York City
BRODIX, CHARLES RAYMOND.....	(Mhtn) New York City
BRODIX, JOHN WEEDMAN.....	(Mhtn) New York City
BUCHDAHL, MILTON G.....	(Mhtn) New York City
CAMPBELL, BERNARD.....	(Mhtn) New York City
CARPENTER, WILLIAM MORGAN.....	(Mhtn) New York City
CHELIMER, HARRY JOSHUA.....	(Mhtn) New York City
COHEN, ABRAHAM BRODERICK.....	(Bklyn) New York City
COLLINS, KENNETH BENEDICT.....	(Mhtn) New York City
COMSTOCK, GEORGE FREDERICK.....	(Mhtn) New York City
CONTY, ROBERT JOSEPH.....	Union, N. J.
COWEN, ARTHUR RALPH.....	(Mhtn) New York City
DEMAREST, IRVING COMES.....	Hackensack, N. J.
DICKEY, FRANK ALEXANDER.....	(Mhtn) New York City
DOERNBERG, WALTER SIMON.....	(Mhtn) New York City
DOX, RALPH WATSON.....	Lockport, N. Y.
EGAN, JOSEPH LEO.....	(Mhtn) New York City
EGBERT HARRY DREW.....	(Mhtn) New York City
EDELSTEIN, ELIAS ALEXANDER.....	(Mhtn) New York City
ELLENBOGEN, MAURICE GEORGE.....	Troy, N. Y.
FLANIGAN, WILLIAM ADAMS.....	(Mhtn) New York City
FORSCH, HERBERT.....	(Mhtn) New York City
FUCHS, SAMUEL ALEXANDER.....	(Mhtn) New York City
GORDON, PERCY ADOLPHUS.....	Guttenberg, N. J.
HAIGHT, JOHN MCVICKAR.....	Garrison, N. Y.
HALL, FRANK CLARK.....	Virginia City, Mont.
HARTMAN, WALTER.....	(Mhtn) New York City
HASKELL, ROBERT HENRY.....	Portland, Me.
HAWES, LEWIS FRENCH STEARNS.....	New Rochelle, N. Y.
HELLENBERG, LAWRENCE HERMAN.....	(Mhtn) New York City

HENES, EDWARD, JR.	(Mhtn) New York City
HERZBERG, MAX JOHN	Newark, N. J.
HOLTER, PAUL CHARLES HENRY	Jersey City, N. J.
HOPKINS, FRANK LOUISON	Yonkers, N. Y.
JACKSON, CHARLES FREDERICK HAVEMEYER	(Br) New York City
KNIGHT, WILLIAM	Waterloo, N. Y.
KOHLBERG, HERBERT SIDNEY	El Paso, Texas
LEVY, ARTHUR SAUL	(Mhtn) New York City
LEVY, BERTRAM	(Mhtn) New York City
LEWINE, HIRAM SIDNEY	(Mhtn) New York City
LIEBLER, THEODORE AUGUST, JR.	(Mhtn) New York City
MAPES, CLARENCE D.	(Mhtn) New York City
MARCUS, CHARLES	(Mhtn) New York City
MARTLAND, RALPH BUCKLISH	Newark, N. J.
MASTERTON, ROBERT COOLIDGE	(Mhtn) New York City
MILLER, CHARLES EDWARD	Jersey City, N. J.
MOORE, RALPH CHARLES BELCHER	Chatham, N. J.
MORI, VICTOR WILLIAM	(Mhtn) New York City
PALMER, WILLIAM GRANT	(Mhtn) New York City
PARKS, JAMES LEWIS, JR.	(Mhtn) New York City
PEISER, DELWYN WALTER	(Mhtn) New York City
PIERREPONT, SETH LOW	(Bklyn) New York City
PRICE, CHARLES ROYAL	Morgan Park, Ill.
RANDOLPH, FREDERIC COZZENS FITZ	(Mhtn) New York City
REGES, CHARLES HENRY	(Q) New York City
RICHTER, STANLEY LASKER	(Mhtn) New York City
SCHERMERHORN, JOHN EGMONT, JR.	(Mhtn) New York City
SCHNEIDER, JACOB	Orange, N. J.
SCHWARZ, WALTER MAX	(Mhtn) New York City
SHAPIRO, REUBEN	Cleveland, Ohio
SNYDER, THOMAS ELLIOTT	(Mhtn) New York City
SOLOMON, MICHAEL	(Mhtn) New York City
SPENCER, CHARLES BURR	(Br) New York City
STEINFELD, ALBERT	(Mhtn) New York City
SWORDS, ALBERT TWOMBLY	(Mhtn) New York City
TAYLOR, JOHN HENRY	Amsterdam, N. Y.
VEHSLAGE, HAROLD EDWIN	(Mhtn) New York City
WEBB, CAROLUS ROE	Glen Ridge, N. J.
WECHSLER, LAWRENCE ALBERT	(Mhtn) New York City
WEIL, ADOLPH	Montgomery, Ala.
WEIL, PERCIVAL LEOPOLD	(Mhtn) New York City
WEISMAN, JAY JEROME	(Mhtn) New York City
WHITE, ROBERT JENKINS	(Mhtn) New York City
WICKE, CARL	(Mhtn) New York City
WOLF, LEONARD JAMES	(Mhtn) New York City
WORMSER, ISAAC MAURICE	(Mhtn) New York City
WUPPERMANN, CARLOS SIEGERT	(Mhtn) New York City
ZONS, FREDERICK WILLIAM	(Q) New York City

The enrolment of the following in this class has been delayed (see College Announcement of 1904-05, section 30):

ARNOLD, JOHN WELLES	(Mhtn) New York City
AUERBACH, GEORGE SAMUEL	(Mhtn) New York City
BOLLES, FREDERICK NATHAN	Newark, N. J.
CHAPIN, HENRY EAGLE	(R) New York City
COLLINS, EDWARD T.	Tarrytown, N. Y.
CONRIED, RICHARD	(Mhtn) New York City
FISCHER, EMIL EMANUEL	(Mhtn) New York City

HARRIS, WILLIAM, JR.	(Mhtn) New York City
HETHERINGTON, FERRIS SANDS	(Mhtn) New York City
HOPPING, ALLEN TILTON	(Mhtn) New York City
JABINE, WILLIAM	Yonkers, N. Y.
KELLEY, WALTER EDWARD	(Mhtn) New York City
KIRK, EDWIN	(Mhtn) New York City
LUKENS, EDWARD FRENCH	Ft. Wayne, Ind.
McKINLAY, CHARLES MILES	Tenafly, N. J.
MILLER, ROBERT	(Mhtn) New York City
MITCHELL, CORNELIUS VON ERDEN	(Mhtn) New York City
NORRIS, GEORGE	(Bklyn) New York City
PERRINE, HAROLD	(Mhtn) New York City
RAPHAEL, ANGUS MATTHEWS	(Mhtn) New York City
REANEY, GEORGE HUMES	(Mhtn) New York City
TACHNA, MAX	(Mhtn) New York City
Total	113

## FRESHMEN—CLASS OF 1908

ALEXANDER, TOM MACKENZIE	(Mhtn) New York City
ALLEN, WILLIAM HENRY, JR.	(Bklyn) New York City
BAGLEY, GEORGE JARDINE	Rahway, N. J.
BAGNELL, ROBERT HAROLD	(Mhtn) New York City
BANKS, HAROLD PURDY	Boonton, N. J.
BARNET, SYLVAN MORRIS	(Mhtn) New York City
BASSETT, EARL JULIAN	Rockville Centre, N. Y.
BECK, DAVID	(Mhtn) New York City
BEEKMAN, CORTLANDT	(Mhtn) New York City
BERLINER, LEE HERBERT	(Mhtn) New York City
BESSIE, ABRAHAM	Wahpeton, N. D.
BIJUR, HARRY	(Mhtn) New York City
BILLINGSLEY, PAUL	(Bklyn) New York City
BISCH, LOUIS EDWARD	(Bklyn) New York City
BLOCK, MAX	(Bklyn) New York City
BLOOM, ISIDORE	(Bklyn) New York City
BLUMBERG, HENRY	(Bklyn) New York City
BOORMAN, KITCHELL MONCKTON	(Mhtn) New York City
BRADY, WILLIAM GAGE, JR.	(Mhtn) New York City
BRAININ, CLEMENT S.	(Mhtn) New York City
BRANDLEY, WALTER GEORGE	Newark, N. J.
BRECK, WILLIAM ROGERS	(Mhtn) New York City
BROWN, LOUIS	(Mhtn) New York City
BULL, GEORGE H.	(Mhtn) New York City
CELLA, CARLO DOMENICO	(Mhtn) New York City
CHENEY, CLARENCE ORION	(Mhtn) New York City
CHODOROV, FRANK	(Mhtn) New York City
CLEVELAND, HORACE GILLETTE	Ridgewood, N. J.
COHN, MICHAEL MARTIN	Buffalo, N. Y.
COHN, WALTER WILLIAM	Buffalo, N. Y.
CONTENT, HAROLD AUGUSTUS	(Mhtn) New York City
CRANE, THEODORE HUBERT	Yonkers, N. Y.
CURRAN, ARTHUR	(Mhtn) New York City
DAVIS, BENNETT	Buffalo, N. Y.
DEGENER, HERBERT	(Mhtn) New York City
EARLE, GUYON LOCKE CROCHERON	(Mhtn) New York City
EASTMAN, WILLIAM	Roslyn, N. Y.
EPSTEIN, MAURICE	(Mhtn) New York City



FAILING, CHARLES ROSCOE.....	Palatine Bridge, N. Y.
FEIGENBAUM, WILLIAM M.....	(Bklyn) New York City
FISH, HARRY POTTER.....	(Mhtn) New York City
FOWLER, HAROLD.....	(Mhtn) New York City
FRANK, JEROME ADRIAN.....	(Mhtn) New York City
FREEDMAN, LEO.....	(Mhtn) New York City
FRÖHLICH, LOUIS DAVID.....	(Mhtn) New York City
GOLDBLATT, HAROLD MILTON.....	(Mhtn) New York City
GOODKIND, MORRIS.....	(Mhtn) New York City
GOODMAN, EDWARD.....	(Mhtn) New York City
GRIFFIN, ERNEST FREBLAND.....	Tarrytown, N. Y.
GUGGENHEIM, EDMOND A.....	(Mhtn) New York City
HAGEMANN, ROBERT HERMAN, Jr.....	(Bklyn) New York City
HAHN, RUDOLPH.....	Cornwall-on-Hudson, N. Y.
HALLER, WILLIAM.....	Buffalo, N. Y.
HANNA, HUGH JOHN, Jr.....	(Mhtn) New York City
HARRIS, HARVEY GOODMAN.....	Montclair, N. J.
HARRISSON, LESTER.....	(Bklyn) New York City
HAUSER, JOHN ODELL.....	(Mhtn) New York City
HEIMAN, JESSE.....	Little Rock, Ark.
HERRMANN, ALFRED.....	(Mhtn) New York City
HERTS, B. RUSSELL.....	(Mhtn) New York City
HIGGINS, TREMONT AMASA.....	(Mhtn) New York City
HOLTZOFF, ALEXANDER.....	(Mhtn) New York City
HUNTINGTON, EDGAR IRVING.....	(Mhtn) New York City
JAQUES, GEORGE WASHINGTON, Jr.....	Elizabeth, N. J.
JOBBINS, EDWARD PUSEY.....	Aurora, Ill.
JOSEPH, JOHN ARTHUR, Jr.....	(Mhtn) New York City
KELLOGG, WILLIAM ALVAN, Jr.....	(Mhtn) New York City
KOBBE, FREDERICK WILLIAM.....	(Mhtn) New York City
KUDLICH, HERMAN FREDERICK, Jr.....	(Mhtn) New York City
LAU, ROBERT FREDERICK.....	Newark, N. J.
LEUCHS, FRED ADOLPH HERMAN.....	(Mhtn) New York City
LEWIS, LEICESTER CROSBY.....	(Mhtn) New York City
LICHTER, BENJAMIN.....	Pittsburg, Pa.
LINK, HARRY ADAM.....	(Mhtn) New York City
MCCULLOCH, PAUL LEAVENWORTH.....	Orange, N. J.
McELWEE, ROY SAMUEL.....	Berlin, Germany
MABIE, WINFRED SCRIBNER.....	Paterson, N. J.
MacGREEVY, WILLIAM JOHN.....	(Mhtn) New York City
MACKENZIE, GEORGE MINER.....	Dobbs Ferry, N. Y.
MARCY, FRANK LEMUEL.....	(Mhtn) New York City
MARSHALL, ROBERT PALMER.....	(Mhtn) New York City
MASTIN, ROBERT RIPLEY.....	Piermont-on-Hudson, N. Y.
MAYER, CHARLES.....	(Mhtn) New York City
MONTGOMERY, AUSTIN PHILIPS.....	(Q) New York City
MURPHY, WILLIAM DEACON.....	(Mhtn) New York City
MYERS, WILLIAM HERBERT.....	(Bklyn) New York City
OLINGER, HENRY CÆSAR.....	(Mhtn) New York City
OLIVER, CLARENCE WILBERFORCE.....	E. Orange, N. J.
O'MAHONEY, JOSEPH CHRISTOPHER.....	(Br) New York City
OSTERHOUT, WILLIAM BURGESS.....	Freeport, N. Y.
OTIS, ARTHUR HAMILTON.....	(Mhtn) New York City
PALMBLAD, HARRY VICTOR EMANUEL.....	(Bklyn) New York City
PALMER, HAROLD.....	(Mhtn) New York City
PARRAGA, FERNANDO URDANETA.....	(Mhtn) New York City
POLL, DANIEL.....	(Bklyn) New York City
PORTER, EDWARD EVELYN.....	(Mhtn) New York City

PRINCE, JAMES FREDERICK.....	Yonkers, N. Y.
REGENSBURGER, IRVING PHILLIPS.....	(Mhtn) New York City
RIEGEL, HARRY.....	(Mhtn) New York City
RINDGE, FRED HAMILTON, JR.....	(Mhtn) New York City
ROBINSON, WILLIAM BEVERLY.....	Sayville, N. Y.
ROLKER, CHARLES M., JR.....	(Mhtn) New York City
ROMAGNA, ANTHONY JESSE.....	(Mhtn) New York City
ROSE, WALTER JOSEPH.....	(Mhtn) New York City
ROSENBAUM, EDWIN JOSEPH.....	Portsmouth, Va.
ROSENBLATT, BERNARD ABRAHAM.....	(Mhtn) New York City
ROTHSCHILD, MARCUS A.....	Woodville, Miss.
ROUSE, EDWARD CURTIS.....	East Orange, N. J.
SALES, GROVER GRANMAN.....	Louisville, Ky.
SAMUELS, ABRAHAM BERTRAM.....	(Mhtn) New York City
SCHLESINGER, EDWIN JAMES.....	(Mhtn) New York City
SCHONBERG, MAX.....	(Mhtn) New York City
SCHREIBER, WILLIAM.....	(Mhtn) New York City
SELIGMANN, ARTHUR WALTER.....	(Mhtn) New York City
SHAPINSKY, ALVIN THEODORE.....	Louisville, Ky.
SKUTCH, IRA.....	(Bklyn) New York City
SLOANE, JOHN EYRE.....	South Orange, N. J.
SMITH, ORISON HAMILTON.....	(Mhtn) New York City
SMITH, WILLIAM HARVEY, JR.....	Mamaroneck, N. Y.
SNEVILY, HENRY MANSFIELD.....	(Bklyn) New York City
STECKLER, ALFRED, JR.....	(Mhtn) New York City
STEVENS, CHARLES FRANKLIN.....	Oneonta, N. Y.
STOCK, JOHN WALTER.....	(Mhtn) New York City
SWARTWOUT, FRANK ROBERT.....	Scarsdale, N. Y.
TOWNSEND, EDWARD BENJAMIN.....	(Mhtn) New York City
TUCHMANN, AARON.....	(Mhtn) New York City
VAN TINE, ADDISON ALLEN.....	(Mhtn) New York City
VAUGHAN, BURTIS FLEMING.....	Roselle, N. J.
WALBRIDGE, DUDLEY HUNT.....	(Mhtn) New York City
WALSH, CHARLES JOSEPH.....	(Bklyn) New York City
WARDELL, WINFIELD SCOTT, JR.....	Orange, N. J.
WARE, FOSTER.....	(Mhtn) New York City
WEAVER, PAUL.....	(Bklyn) New York City
WHEELER, DUDLEY IRWIN.....	(Mhtn) New York City
WHEELER, JOHN NEVILLE.....	Yonkers, N. Y.
WINCHELL, CLARENCE EDWARD.....	West Orange, N. J.
WINSLOW, LAWRENCE LANIER.....	(Mhtn) New York City
WISE, BYRD DOUGLASS.....	(Mhtn) New York City
WISE, LOUIS ELSBERG.....	(Mhtn) New York City
WOARMS, EDWIN HESS.....	(Mhtn) New York City
WOLFERZ, LOUIS ERNST.....	(Bklyn) New York City
WOLFF, LOUIS JACOB.....	(Bklyn) New York City
WOOD, WILLIAM LAWRENCE.....	(Mhtn) New York City
WOODBURY, WALTER BLIGH.....	Oneida, N. Y.
Total.....	144

## SPECIAL STUDENTS

*Unclassified Candidates for a Degree*

AMES, CLAIR ELWOOD.....	(Mhtn) New York City
BIGELOW WILLIAM FREDERIC.....	Melford Center, Ohio
BROWN, CLINTON BLEECKER.....	(Mhtn) New York City
BROWN, JOHN VINCENT.....	(Mhtn) New York City
BROWNE, DUNCAN HODGE.....	(Mhtn) New York City

BYRON, THOMAS PATRICK.....	Bradford, Penn.
CAMPRUBI, RAYMOND AYMAR.....	(Mhtn) New York City
CLARKE, HARRY EDWARD.....	(Mhtn) New York City
COMSTOCK, MILES CHESTER.....	Utica, N. Y.
CROSBY, WILLIAM C.....	New Rochelle, N. Y.
CUTTING, VICTOR WILLARD.....	(Bklyn) New York City
FERRIS, OLIVER BUNCE.....	Montclair, N. J.
GOETZ, EDWARD RAY.....	(Mhtn) New York City
GOODLATTE, ROBERT KIP.....	Passaic, N. J.
GUDE, FRED. G.....	(Mhtn) New York City
HANKE, EMIL OTTO.....	Cincinnati, Ohio
HARLAM, ELWOOD JULES.....	(Mhtn) New York City
KEHRLEIN, EMIL VALENTINE, JR.....	(Mhtn) New York City
KILIAM, RICHARD BAYARD.....	(Mhtn) New York City
KOHLBERG, WALTER LIONEL.....	El Paso, Texas
KUNZ, GEORGE HANDFORTH.....	Mohegan, N. Y.
LANG, ERWIN LOUIS JOSEPH EUGENE.....	(Mhtn) New York City
LONG, MILTON CLYDE.....	Springfield, Mass.
McCHRYSTAL, MARCUS ARTHUR.....	Salt Lake City, Utah
MAPELSDEN, REUBEN, JR.....	(Bklyn) New York City
MILES, GEORGE FREDERICK.....	(Mhtn) New York City
MOCKRIDGE, RALPH WHITNEY.....	(Mhtn) New York City
ODELL, WALTER TOMKINS.....	Tomkins Cove, N. Y.
PALMER, FRED LEWIS WILLIAM.....	Montclair, N. J.
POTTER, ADELBERT.....	New Rochelle, N. Y.
PRESTON, FRANK CARLTON.....	San Francisco, Cal.
RANDOLPH, HOWARD S. FITZ.....	(Mhtn) New York City
SCHOMBERG, PHILIP.....	Mason City, Ia.
SNYDER, HARVEY HENRY.....	Massillon, Ohio
STOIBER, HERBERT ALFRED.....	(Mhtn) New York City
SUTTER, MILTON VICTOR.....	New Rochelle, N. Y.
VAN HOUTEN, RAYMOND SAMUEL.....	Paterson, N. J.
VAN WYCK, WILLIAM.....	(Mhtn) New York City
VEIT, ARTHUR STOBO.....	(Mhtn) New York City
WINDELS, PAUL WILLIAM HENRY.....	(Bklyn) New York City

*Irregular Students*

DUNCAN, WILLIAM HENRY, JR.....	(Bklyn) New York City
GOLDEN, ASHER.....	(Mhtn) New York City
HAWKINS, WARNER MASON.....	(Mhtn) New York City
HOWE, WALTER EDWIN.....	Dorchester, Mass.
JOSEPH, ISYA.....	(Mhtn) New York City
MILLS, WALTER SANDS.....	(Mhtn) New York City
Total.....	46

## SUMMARY

Seniors—Class of 1905.....	105
Juniors—Class of 1906.....	117
Sophomores—Class of 1907.....	113
Freshmen—Class of 1908.....	144
Special Students.....	46
Total.....	525

## SCHOOL OF LAW

### OFFICERS OF INSTRUCTION AND GOVERNMENT

#### Officers of the Faculty

- GEORGE W. KIRCHWEY, A.B....*Dean (term expires 1905) and ex-officio  
Member of the University Council*
- HENRY S. REDFIELD, LL.D.....*Secretary*
- FRANCIS M. BURDICK, LL.D.....*(term expires 1907) Elected Delegate to  
the University Council*

#### The Faculty

- NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*
- FRANCIS M. BURDICK, LL.D.....*Dwight Professor of Law*
- GEORGE W. KIRCHWEY, A.B..... *Kent Professor of Law*
- GEORGE F. CANFIELD, A.B., LL.B.....*Professor of Law*
- HENRY S. REDFIELD, A.M., LL.D.....*Professor of Law*
- CHARLES T. TERRY, A.B., LL.B.....*Professor of Law*
- HARLAN F. STONE, A.M., LL.B.....*Adjunct Professor of Law*
- JAMES B. SCOTT, A.M., J.U.D.....*Professor of Law*

#### Other Officers

- ALFRED HAYES, Jr., A.B., LL.B.....*Tutor*
- JACKSON E. REYNOLDS, A.B., LL.B.....*Lecturer*
- THADDEUS D. KENNESON, A.M., LL.B.....*Lecturer*

#### From the Faculty of Political Science

- JOHN W. BURGESS, Ph.D., LL.D..*Ruggles Professor of Political Science  
and Constitutional Law*
- MUNROE SMITH, J.U.D., LL.D.....*Professor of Roman Law and  
Comparative Jurisprudence*
- FRANK J. GOODNOW, LL.D.....*Eaton Professor of Administrative Law  
and Municipal Science*
- JOHN B. MOORE, LL.D.....*Hamilton Fish Professor of International  
Law and Diplomacy*

### PURPOSES OF THE SCHOOL

The design of the School of Law is to afford a thorough, practical, and scientific education in the principles of:

The common and statute law of the United States.



The English and American system of equity jurisdiction.  
 The public law of the United States and Europe.  
 The Roman law—ancient and modern.  
 Theoretical and comparative jurisprudence.

## PROGRAM OF STUDIES

### First Year

CONTRACTS—Keener's Cases on Contracts. 4 hours. Professor TERRY

<sup>1</sup> CRIMINAL LAW—Beale's Cases on Criminal Law. 3 hours, first half-year. Professor SCOTT

DOMESTIC RELATIONS—Smith's Law of Persons. 2 hours, second half-year. Professor SCOTT

EQUITY: Origin and Nature, Bills of Peace, Interpleader, Quia Timet, Removal of Cloud upon Title, Jurisdiction over Torts—Keener's Cases on Equity, vol. 1. 2 hours, second half-year. Professor STONE

PLEADING AND PRACTICE: Organization and Functions of Courts, Common Law and Equity Pleading—Ames's Cases on Common Law Pleading; Perry on Common Law Pleading; Thompson's Cases on Equity Pleading and Practice. 2 hours. Professor REDFIELD

REAL AND PERSONAL PROPERTY: Tenures, Estates, Nature and Incidents of Ownership, Conveyancing, Landlord and Tenant—Kirchwey's Readings in Real Property; Gray's Cases on Property, vol. 1. 2 hours. Professor KIRCHWEY

TORTS—Burdick's Cases on Torts; Pollock on Torts. 2 hours. Professor BURDICK

<sup>1</sup> AMERICAN CONSTITUTIONAL LAW IN ITS HISTORICAL DEVELOPMENT. 2 hours. Professor BURGESS

### Second Year

ADMIRALTY—Ames's Cases on Admiralty. 2 hours, second half-year. Professor SCOTT

AGENCY—Wambaugh's Cases on Agency. 2 hours. Mr. REYNOLDS

BAILMENTS AND CARRIERS—McClain's Cases on Carriers; Beale and Wyman's Cases on Public Service Companies. 2 hours. Mr. REYNOLDS

EQUITY: Trusts—Ames's Cases on Trusts. 2 hours. Professor STONE

INSURANCE—Richards on Insurance. 2 hours, second half-year. Professor BURDICK

<sup>1</sup> The student may elect between Criminal Law and American Constitutional Law

NEGOTIABLE PAPER—Ames's Cases on Bills and Notes. 2 hours. Professor CANFIELD

PLEADING AND PRACTICE: Code Pleading and Practice—Redfield's Cases on Code Pleading and Practice, vol. i.; New York Code of Civil Procedure. 2 hours. Professor REDFIELD

QUASI-CONTRACTS—Keener's Cases on Quasi-Contracts. 3 hours, first half-year. Professor SCOTT

REAL AND PERSONAL PROPERTY: Easements, Covenants affecting Land, Watercourses, Public Rights, etc.—Gray's Cases on Property, vols. 2 and 3. 2 hours. Professor KIRCHWEY

SALES OF PERSONAL PROPERTY—Burdick's Cases on Sales (2d ed.); Burdick on Sales (2d ed.). 2 hours. Professor BURDICK

ADMINISTRATIVE LAW, (a) of the United States and Europe. 2 hours, first half-year. Professor GOODNOW

ADMINISTRATIVE LAW, (b) Law of Officers, Extraordinary Legal Remedies—Mandamus, Quo Warranto, Certiorari, Habeas Corpus, etc. 2 hours, second half-year. Professor GOODNOW

COMPARATIVE CONSTITUTIONAL LAW. 2 hours. Professor BURGESS

INSTITUTES OF ROMAN LAW. 2 hours. Professor MUNROE SMITH

### Third Year

BANKRUPTCY AND INSOLVENCY—Williston's Cases on Bankruptcy. 2 hours, second half-year. Professor BURDICK

CORPORATIONS—Keener's Cases on Corporations. 2 hours. Professor CANFIELD

DAMAGES—Beale's Cases on Damages. 2 hours, first half-year. Mr. HAYES

EQUITY: Jurisdiction over Contracts, Account, Equitable Conversion—Keener's Cases on Equity, vols. 2 and 3. 2 hours. Professor STONE

EVIDENCE—Thayer's Cases on Evidence. 2 hours. Mr. KENNESON

MORTGAGES—Kirchwey's Cases on Mortgage. 2 hours. Professor SCOTT

PARTNERSHIP—Burdick's Cases on Partnership; Burdick on Partnership. 2 hours. Professor BURDICK

PLEADING AND PRACTICE: Code Practice, Provisional Remedies, Judgments, etc.—Redfield's Cases on Code Pleading and Practice, vol. ii. 2 hours, first half-year. Professor REDFIELD

REAL AND PERSONAL PROPERTY: Conditions, Future Estates, Priorities, Restraints on Alienation, Perpetuities, etc.—Gray's Cases on Property, vols. 5 and 6. 2 hours. Professor KIRCHWEY

SURETYSHIP—Ames's Cases on Suretyship. 2 hours, second half-year. Professor SCOTT

TRUSTS AND PERPETUITIES—Under the Revised Statutes of New York. 2 hours, second half-year. Professor CANFIELD

WILLS AND ADMINISTRATION—Gray's Cases on Property, vol. 4. 2 hours. Professor REDFIELD

AMERICAN CONSTITUTIONAL LAW—Private Rights under the Constitution. 2 hours. Professor BURGESS

COMPARATIVE JURISPRUDENCE. 2 hours. Professor MUNROE SMITH

CONFLICT OF LAWS. 1 hour. Professor MOORE

HISTORY OF EUROPEAN LAW. 2 hours. Professor MUNROE SMITH

INTERNATIONAL LAW. 2 hours. Professor MOORE

MUNICIPAL CORPORATIONS. 2 hours, first half-year. Professor GOODNOW

MODERN CIVIL LAW. 1 hour. Professor MUNROE SMITH

LAW OF TAXATION. 2 hours, second half-year. Professor GOODNOW

### Carpentier Lectures

The University has recently received a fund, the gift of General H. W. Carpentier of the Class of 1848, established in memory of his brother, James S. Carpentier, for the purpose of maintaining "a special course of lectures on the science of law, to be given at the University at least as often as every third year, by some one from time to time to be chosen for pre-eminent fitness and ability."

The first course of lectures on this foundation was delivered in the fall of 1904, by the Rt. Hon. James Bryce, D.C.L., LL.D., M.P., on the subject "LAW IN ITS RELATIONS TO HISTORY."

### Practice Courts

Moot Courts, conducted with special reference to the courses in pleading and practice, will constitute a regular feature of the work of the second and third years. They will be under the supervision of Mr. HAYES

### Requirements for Admission

#### To the First-Year Class

All applicants for admission to the school must present satisfactory evidence of good moral character, and must be at least eighteen years of age for admission to the work of the first-year class at its formation, and of a corresponding increase of age for admission to advanced standing. They are admitted subject to the provisions of the Statutes of the University in regard to discipline.

Graduates of colleges and scientific schools in good standing are admitted without examination. All persons other than such graduates must present satisfactory evidence of preliminary training, obtained in

higher institutions of learning in this country or abroad, equivalent to that of a full college course.

### To Advanced Standing

Two classes of students may enter on advanced standing at the beginning of the second year—(a) graduates of Columbia College, who have, after completing their junior year in the College, satisfactorily completed the work of the first year in the School of Law, and (b) graduates of any college or scientific school in good standing who have, after taking their first degree, satisfactorily pursued the study of law for at least a year in an approved law school. No school admitting its graduates to a degree in law on less than three years of systematic law-school work will be recognized as satisfying this requirement.

No one will be admitted to advanced standing beyond the second year except by special vote of the Faculty.

The examinations for advanced standing cover all the work previously done by the class to which admission is sought, and are held at the end of the academic year and during the week preceding the opening of the fall term. No certificate or diploma of work done elsewhere will be accepted in lieu of these examinations.

### As Special Students

In exceptional cases qualified persons not candidates for the degree of LL.B., who are not eligible under this rule, may be admitted as special students by vote of the Faculty. No one will be admitted to the School to pursue advanced work as a special student who has not passed satisfactory examinations in the contract, equity, and property courses preceding such work in point of time.

### Examinations

Written examinations are held at the end of each academic year on the subjects of that year, and on the subjects of the first and second years during the week preceding the opening of the fall term.

All students, whether regular or special, must, unless excused by the Dean, present themselves for examination in all the subjects for which they are registered at the first examination held therein, and, in case of excuse from any examination or failure therein, must take the next examination offered in such subject.

No student is admitted to advanced standing who has failed to pass satisfactory examinations in more than four hours of work per week. No student will be admitted to advanced standing as a member of the third-year class who has not at the beginning of his third year passed satisfactory examinations in all the subjects of the first year. No student failing a third time in any given subject will be allowed to continue in the school.

Special students must pass satisfactory examinations in not less



than 75 per cent. of the work for which they are registered, as a condition of continuing in the school. .

Students are not permitted to take examinations in courses for which they are not regularly registered.

No special examinations are given.

#### Degrees

The course of instruction leading to the degree of Bachelor of Laws covers a minimum period of three years, in which there are offered seventy-three hours of instruction per week throughout the year. In the first year are offered fifteen and one-half hours, in the second year twenty-three and one-half hours, and in the third year thirty-three hours of instruction per week. Courses not taken in the first or the second year may be elected as a part of the work of the following year.

The degree of Bachelor of Laws is conferred only upon students who have passed satisfactory examinations in courses covering a total of forty-two hours per week.

To obtain this degree in three years the student must take courses covering not less than thirteen nor more than fifteen hours per week in any one of the three years. While no student will be allowed to present himself for examination in any one year in subjects covering more than the number of hours so taken, any one desiring to prolong the period of study for the degree of LL.B. beyond three years will be permitted to reduce thereby the amount of work in any one year necessary for the degree. The Faculty would strongly advise students who have not made a thorough study of history, economics, and finance so to prolong their course of study, in order that they may avail themselves of the opportunities offered in the School of Political Science for pursuing these subjects.

The work selected by a student for a degree in law is subject in every case to the approval of the Dean.

For the requirements for the degree of Master of Arts, see page 209.

#### Scholarships

(See page 45)

#### Fees

(See page 23)

#### Law Library

The law library has been greatly extended and improved, and now consists of about 30,000 volumes, which have been carefully selected to meet the wants of students. It is especially rich in American, English, and British Colonial reports.

The general Library of the University, consisting of upwards of 365,000 volumes (see page 59), contains extensive collections of works relating to international, public, and Roman law.

## REGISTER OF STUDENTS

### School of Law

#### THIRD YEAR—CLASS OF 1905

ABBOTT, GARDNER.....	(Mhtn) New York City Yale University, A.B., 1902.
ABRAHAM, BENJAMIN.....	(Mhtn) New York City College of the City of New York, A.B., 1902.
AGENBROAD, ALBERT ALONZO.....	Tippecanoe City, O. Oberlin College, A.B., 1900; A.M., 1901.
ALLEN, WILLIAM FITCH.....	Oswego, N. Y. Columbia University, A.B., 1903.
ANDERSON, HALCOTT.....	Pensacola, Fla. University of North Carolina, A.B., 1900.
ASCH, DAVID.....	(Mhtn) New York City Columbia University, A.B., 1903.
BACH, MILTON JACOB.....	(Mhtn) New York City Harvard University, B.S., 1902
BAKERMAN, JOHN JAMES.....	(Mhtn) New York City Columbia University, A.B., 1903.
BALLENBERG, MILTON.....	(Mhtn) New York City
BARRETT, RANDOLPH COE.....	Bloomfield, N. J. Williams College, A.B., 1902.
BATES, KAHL CLEMENT.....	(Bklyn) New York City
BAYES, WILLIAM ROBERT.....	Wauseon, O. Ohio Wesleyan University, A.B., 1901.
BEALE, PHELON.....	Montgomery, Ala. University of the South, LL.B., 1902.
BEATTY, EARLE LYNWOOD.....	Lexington, Ky. Kentucky University, A.B., 1899; A.M., 1900.
BERNHEIM, SYDNEY.....	(Mhtn) New York City
BIRMINGHAM, WILLIAM GEORGE.....	Liberty, N. Y.
BRADLEY, ALLAN BEACH ARNOLD.....	(Mhtn) New York City Columbia University, A.B., 1902.
BROUSE, EDWIN WALTER.....	Akron, O. Oberlin College, A.B., 1901.
BUDINGTON, ERNEST GUNTON.....	(Bklyn) New York City Columbia University, A.B., 1902.
CAPONIGRI, JOSEPH FERRUTTIUM.....	(Mhtn) New York City Manhattan College, A.B., 1902.
CARTER, JARVIS POMEROY.....	(Mhtn) New York City Columbia University, A.B., 1902.
CLARK, FRANKLIN MORTIMER.....	(Mhtn) New York City Columbia University, A.B., 1902.

- COHEN, ARTHUR JOSEPH.....(Mhtn) New York City  
Dartmouth College, A.B., 1903.
- COLLYER, HOMER LUSK.....(Mhtn) New York City  
College of the City of New York, A.B., 1902; A.M., 1904.
- CONWELL, EDWARD VINSON.....(Mhtn) New York City
- COWEN, HARRY GABRIEL.....(Mhtn) New York City  
Columbia University, A.B., 1902.
- CRAWFORD, WILLIAM KAY.....Los Angeles, Cal.  
University of California, B.L., 1902.
- CREEVEY, WILLIAM STICKNEY.....(Bklyn) New York City  
Yale University, A.B., 1902.
- CUMMINGS, WILBUR LOVE.....Springfield, O.  
Kenyon College, A.B., 1902.
- DAVIS, ARTHUR LOUIS.....(Mhtn) New York City
- DAVIS, EDWARD LEROY.....Orange, N. J.
- DEWEESE, FRED MILO.....Lincoln, Neb.  
University of Nebraska, A.B., 1902.
- DOLLIN, EDGAR NORMAN.....(Mhtn) New York City
- DUELL, WILLIAM COMSTOCK.....Tarrytown, N. Y.
- DUNHAM, FREDERIC GIBBONS.....Buffalo, N. Y.  
Cornell University, A.B., 1902.
- DURHAM, KNOWLTON.....(Mhtn) New York City  
Columbia University, A.B., 1901; A.M., 1902.
- DWORSKY, HAROLD PERRY.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- FASOLA, JOHN BAPTIST.....(Br) New York City
- FINEGAN, JAMES EMMET.....Schenectady, N. Y.  
Union College, Ph.B., 1902.  
Columbia University, A.M., 1904.
- FINNEY, CHARLES ALEXANDER.....Bradford, Pa.
- FOSS, FRANK HALSEY.....Norwich, Conn.  
Trinity College, A.B., 1901.
- FULD, LEONHARD FELIX.....(Mhtn) New York City  
Columbia University, A.B., 1903; A.M., 1904.
- GAST, ROBERT SHAEFFER.....Pueblo, Colo.  
Yale University, A.B., 1902.
- GILLETTE, ALBERT COOLEY.....Rossburg, N. Y.  
Illinois Wesleyan University, Ph.B., 1900.  
Columbia University, A.M., 1904.
- GOLDFARB, PHILIP.....Paterson, N. J.
- GOLDSMITH, OLIVER LOUIS.....New London, Conn.
- GOODMAN, EMIL MAXWELL.....Glen Cove, N. Y.
- HAAS, HERBERT JOSEPH.....Atlanta, Ga.  
Columbia University, A.B., 1903.
- HARDMAN, MAX.....Seattle, Wash.
- HARRISON, RICHARD COMPTON.....(Bklyn) New York City  
Columbia University, A.B., 1903.
- HAYS, ARTHUR GARFIELD.....(Mhtn) New York City  
Columbia University, A.B., 1902.
- HERCHÉ, HAROLD HOWARD.....(Mhtn) New York City
- HEYMAN, HENRY KOCH.....(Mhtn) New York City  
Columbia University, A.B., 1903; A.M., 1904.
- HINCKS, ROBERT BERESFORD.....Philadelphia, Pa.  
Columbia University, A.B., 1902.

- HOFFMAN, MILTON.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- HOGUET, RAMSAY.....(Mhtn) New York City  
Columbia University, E.E., 1903.
- HOWES, HENRY WRIGHT.....Macon, Ga.
- INTEMANN, HENRY CHRISTIAN.....(Br) New York City  
College of the City of New York, B.S., 1902.
- JARMULOWSKY, ADOLPH.....(Mhtn) New York City
- KAUFMANN, CHARLES.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- KAUFMANN, SIDNEY WALTER.....(Mhtn) New York City
- KENNEY, ALEXANDER LAWRENCE.....Dansville, N. Y.
- KOUWENHOVEN, HARRY WILLIAMSON.....(Q) New York City
- LANE, CHARLES JAMES.....(Mhtn) New York City  
College of the City of New York, B.S., 1901.
- LAWRENCE, CLAY.....Deadwood, S. Dak.  
Dakota State College of Agriculture and Mechanic Arts, B.S., 1898.  
Columbia University, A.M., 1904.
- LEVY, JACOB.....(Mhtn) New York City
- LEWIS, MILES WALKER.....Greensboro, Ga.  
University of Georgia, A.B., 1902.
- LICHTIG, ARNOLD.....(Mhtn) New York City
- LOEW, CHARLES EDWARD.....(Mhtn) New York City  
University of Paris, B. és L. et Sci., 1896.
- LOW, ETHELBERG IDE.....(Mhtn) New York City  
Yale University, A.B., 1902.
- MCBRIDE, JOHN JOSEPH.....Richfield Springs, N. Y.  
Manhattan College, A.B., 1901.
- MCGEE, LEONARD.....(Bklyn) New York City
- MILLER, CHARLES DUNCAN.....(Mhtn) New York City  
Yale University, A.B., 1902.
- MOORE, JOHN MERRICK.....Little Rock, Ark.  
University of Arkansas, LL.B., 1902.
- MOSES, JAMES GARFIELD.....Louisville, Ky.  
Columbia University, A.B., 1903.
- NAGLE, GEORGE ALBERT.....(Q) New York City
- NEARY, FRANK WATKINS.....Cohoes, N. Y.  
Union College, A.B., 1902.
- PARKER, ASHTON.....(Bklyn) New York City
- PECKHAM, REUBEN.....Troy, N. Y.  
Dartmouth, College, B.L., 1902.
- PIERCE, HOWARD WEIDNER.....New Brighton, Pa.  
Yale University, A.B., 1902.
- PINCUS, EMILE.....(Mhtn) New York City  
College of the City of New York, B.S., 1902.
- PITSKE, EDGAR DUDENSING.....(Mhtn) New York City  
Columbia University, A.B., 1904.
- PRENSKY, JOSEPH MOSES.....(Bklyn) New York City
- PRITCHARD, WILLIAM HENRY.....Kane, Pa.  
Oberlin College, A.B., 1902.
- PROCTOR, DAVID MILTON.....Monroe City Mo.  
William Jewell College, A.B., 1902.



- REYNOLDS, HENRY SUYDAM.....(Mhtn) New York City  
Yale University, A.B., 1902.
- ROGERS, SAUL EDWIN.....(Mhtn) New York City  
College of the City of New York, B.S., 1902.
- ROWE, HOWARD MEAD.....(Q) New York City
- ST. JOHN, THEODORE RAYMOND.....Troy, N. Y.  
Columbia University, A.B., 1902.
- SALBY, EDWARD MICHAEL.....Jersey City, N. J.
- SANBORN, ORVILLE CARFIELD.....Chenoo, Ill.  
Oberlin College, A.B., 1902.
- SCHEY, JACOB S.....Longmont, Colo.  
University of Colorado, Ph.B., 1902.  
Columbia University, A.M., 1904.
- SCHULDENFREI, LEWIS.....Atlantic City, N. J.
- SCHUSTER, EDWARD.....(Mhtn) New York City  
Columbia University, A.B., 1902.
- SCHWAB, FRANCIS CHARLES.....(Mhtn) New York City  
Notre Dame University, A.B., 1902.
- SCHWAB, ROBERT.....Glen Cove, N. Y.
- SCHWARZ, RALPH JACOB.....New Orleans, La.  
Tulane University, A.B., 1902.  
Columbia University, A.M., 1904.
- SHUART, HARRY ACKERMAN.....Ramsey, N. J.  
Yale University, Ph.B., 1902.
- SINCERBEAUX, FRANK HUESTIS.....Moravia, N. Y.  
Yale University, A.B., 1902.
- SITTENFIELD, MILTON MARCUS.....Elmira, N. Y.
- SMITH, HERBERT WILLIAM.....North Haven, Conn.  
Yale University, A.B., 1902.
- SPENCER, JOSEPH WHITTLESEY.....Westbrook, Conn.  
Columbia University, A.B., 1902.
- STEELE, PORTER.....(Bklyn) New York City  
Yale University, A.B., 1902.
- STEINER, MAURICE.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- STEYNE, LOUIS ARNDT.....(Mhtn) New York City
- SULLIVAN, FRANCIS JOSEPH ALOYSIUS.....(Bklyn) New York City  
St. Francis Xavier College, A.B., 1902; A.M., 1903.
- SULLIVAN, MORTIMER ALOYSIUS.....Newport, R. I.
- TELSEY, SAMUEL ABRAHAM.....(Bklyn) New York City  
Columbia University, A.B., 1903.
- TE POEL, LOUIS JOHN.....Malmo, Neb.  
Fremont Normal College, A.B., 1902.
- TEPPER, EMANUEL.....(Mhtn) New York City
- TILLINGHAST, RICHARD BARBER.....(Mhtn) New York City  
Yale University, A.B., 1902.
- TOLBERT, WARD VANDERHOOF.....Watkins, N. Y.  
University of Rochester, A.B., 1902.
- TREVOR, JOHN BOND.....Yonkers, N. Y.  
Harvard University, A.B., 1902; A.M., 1903.
- TYLER, ERNEST WILLIAM.....(Bklyn) New York City
- WAGNER, WILLIAM ANDREAS.....Grand Rapids, Mich.
- WALKER, AARON STOCKHOLM BALDWIN.....Guttenburg, N. J.

WALLACE, JAMES GARRETT.....(Mhtn) New York City  
 WALLACH, SAMUEL WILLIAM.....(Mhtn) New York City  
 WEATHERS, NIEL ALEXANDER.....Ocala, Fla.  
 Amherst College, B.S., 1898.

WECHSLER, JOSEPH ZACHARAY.....(Mhtn) New York City  
 College of the City of New York, B.S., 1901.

WEINSTEIN, SAMUEL.....(Bklyn) New York City  
 WELCH, PAUL ROSS.....Westfield, N. Y.  
 WESTERVELT, WARNER WESLEY, Jr.....Woodcliff, N. J.  
 WISE, JOHN PARKER.....Horne City, O.  
 De Pauw University, Ph.B., 1897.

WOLFF, ALFRED JULIUS.....(Mhtn) New York City  
 WOLFF, JACOB.....Yonkers, N. Y.  
 New York University, Ph.B., 1902.

WRIGHT, MOSES JAMES.....Worthington, O.  
 Cornell University, A.B., 1900.

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## SECOND YEAR—CLASS OF 1906

ADAMS, WILLIAM CLARK.....Wooster, O.  
 University of Colorado, Ph.B., 1902.

ANSORGE, MARTIN CHARLES.....(Mhtn) New York City  
 Columbia University, A.B., 1903.

BAUER, HENRY OSWALD A.....Piermont, N. Y.  
 BAUERDORF, CHARLES ROHE.....(Mhtn) New York City  
 Princeton University, B.S., 1903.

BEEKMAN, HENRY RUTGERS.....(Mhtn) New York City  
 Columbia University, A.B., 1903.

BENNETT, JAMES STARK.....Pomona, Cal.  
 Pomona College, B.L., 1903.

BLAKE, CLINTON HAMLIN, Jr.....Englewood, N. J.  
 Columbia University, A.B., 1904.

BLUMBERG, SAMUEL.....(Mhtn) New York City  
 College of the City of New York, B.S., 1903.

BOLLES, JOHN ALBERT.....Kortright, N. Y.  
 Union College, A.B., 1903.

BOVEY, JOHN MASTERS, Jr.....(Mhtn) New York City  
 Columbia University, A.B., 1904.

BROWN, HENRY LINN.....(Mhtn) New York City

BRUNER, HOWARD EDWIN.....Rayne, La.  
 Louisiana State University, A.B., 1903.

BULKLEY, HENRY DAGGETT.....East Orange, N. J.  
 Columbia University, A.B., 1904

BUSHONG, ROBERT GREY.....Reading, Pa.  
 Yale University, A.B., 1903.

CALLAHAN, GEORGE JOHN.....(Mhtn) New York City

CANTRELL, LEWIS MEANS.....Spartanburg, S. C.  
 Wofford College, A.B., 1903.

CHARD, STANDISH.....(Mhtn) New York City  
 Amherst College, A.B., 1902.

CLARK, JOSHUA REUBEN, Jr.....Salt Lake City, Utah  
 University of Utah, B.S., 1898.

- CLOSE, EDWARD BENNETT.....Yonkers, N. Y.  
 COLE, FRANK CLAYTON.....Ravenna, O.  
 Ohio Wesleyan University, A.B., 1903.  
 COOPER, CURTIS CALVIN.....Wilmington, Del.  
 Delaware College, A.B., 1902.  
 CRONE, HARRY.....(Mhtn) New York City  
 College of the City of New York, B.S., 1902.  
 CUSTER, GEORGE ARMSTRONG.....Salida, Colo.  
 Wooster University, A.B., 1900.  
 CUTLER, HUGH DYSART.....Cocacque, Canada  
 Cornell University, A.B., 1902.  
 DAVIS, ABRAHAM MOSES.....(Mhtn) New York City  
 Columbia University, A.B., 1904.  
 DIXON, BENJAMIN FRANKLIN, Jr.....Raleigh, N. C.  
 Trinity College, A.B., 1903.  
 ELGAR, HAROLD BENJAMIN.....(Mhtn) New York City  
 Columbia University, A.B., 1904.  
 FORD, F. GUALDO.....Morristown, N. J.  
 FRECHTLING, HELM PHILIP.....Hamilton, O.  
 GANS, JULIUS.....Chicago, Ill.  
 Yale University, A.B., 1903.  
 GARLOCK, MORGAN BIDLEMAN.....Little Falls, N. Y.  
 Cornell University, A.B., 1904.  
 GARRETSON, LELAND BEEKMAN.....Morristown, N. J.  
 Princeton University, A.B., 1903.  
 GOLDSMITH, IRVING ISLINGTON.....Saratoga Springs, N. Y.  
 Cornell University, A.B., 1903.  
 GRAVENSHORST, PAUL GERHARD.....(Bklyn) New York City  
 Columbia University, A.B., 1904.  
 GRIFFITH, JOHN MARTIN.....Evansville, Ind.  
 Cornell University, A.B., 1903.  
 HARRIS, WILLIAM MARVIN.....Monticello, Ark.  
 University of Arkansas, A.B., 1903.  
 HAVILAND, JOSEPH BERNARD.....Glen Falls, N. Y.  
 Haverford College, A.B., 1902.  
 HENDRICKSON, CHARLES LE ROY.....(Bklyn) New York City  
 Columbia University, A.B., 1903.  
 HESS, JEROME SAYLES.....(Mhtn) New York City  
 Yale University, A.B., 1903.  
 HIGGINS, JAMES CRANE.....East Orange, N. J.  
 Yale University, A.B., 1902.  
 HOENNINGER, JOHN CHARLES.....(Mhtn) New York City  
 HOFFMAN, FRANK KNODE.....Hagerstown, Md.  
 Franklin and Marshall College, A. B., 1903.  
 HOFHEIMER, HENRY.....(Mhtn) New York City  
 College of the City of New York, A.B., 1903.  
 HORNIDGE, HENRY THATCHER.....(Mhtn) New York City  
 College of the City of New York, A.B., 1903.  
 HOUSTON, OSCAR REMPEL.....(Mhtn) New York City  
 Columbia University, A.B., 1904.  
 HURWITZ, DAVID EDWIN.....(Mhtn) New York City  
 College of the City of New York, A.B., 1903.

- KILROE, EDWIN PATRICK.....Jersey City, N. J.  
Columbia University, A.B., 1904.
- KOBBE, GEORGE LOUIS.....(Mhtn) New York City  
Harvard University, A.B., 1903.
- LAWRENCE, GEORGE ALFRED.....(Mhtn) New York City  
Leland Stanford, Jr., University, A.B., 1892.  
Columbia University, M.D., 1895; A.M., 1896; Ph.D., 1902.
- LEIBENDERFER, RALPH JOHN.....Dayton, Ohio  
Princeton University, A.B., 1902.
- LOENING, RUDOLPH RUBINO.....(Mhtn) New York City  
Columbia University, A.B., 1904.
- MACMAHON, EDWARD WARD.....(Q) New York City  
Holy Cross College, A.B., 1903.
- MACMURRAY, JOHN VAN ANTWERP.....(Mhtn) New York City  
Princeton University, A.B., 1902.
- MALMBERRY, THEODORE JAMES WILLIAM.....(Mhtn) New York City  
Columbia University, A.B., 1904.
- MARCUS, SAMUEL SHUAER.....(Br) New York City  
College of the City of New York, A.B., 1903.
- MCDONALD, JAMES EDWARD WHITE.....(Mhtn) New York City  
McGEHEE, ABNER, Jr.....Little Rock, Ark.  
University of Arkansas, A.B., 1903.
- McKENNA, BERNARD CHARLES.....Long Branch, N. J.  
Georgetown University, A.B., 1903.
- MEISEL, ALBERT WORTHINGTON.....(Bklyn) New York City  
Brooklyn Polytechnic Institute, A.B., 1902.
- MEYER, GEORGE A.....Humphrey, Neb.  
Freemont Normal College, B.S., 1901.
- MICHAELIS, WILLIAM.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- MILLER, FRANK LAUNTZ.....Somerset, Pa.  
Lafayette College, Ph.B., 1903.
- MORROW, WILLIAM CARR.....Portland, Ore.  
Leland Stanford, Jr., University, A.B., 1901.
- MOUNT, RUSSELL THEODORE.....East Orange, N. J.  
Princeton University, A.B., 1902.
- MYERS, GEORGE.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- O'LOUGHLIN, GERALD STUART.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- O'SHEA, AMBROSE LUDDEN.....Utica, N. Y.  
Holy Cross College, A.B., 1903.
- PARKER, WAYNE DEE.....Rensselaer, Ind.  
Butler College, A.B., 1903.  
University of Chicago, Ph.B., 1903.
- PINKS, JAMES LESLIE.....Clarion, Pa.  
Indiana University, A.B., 1903.
- RAGSDALE, WILLIAM WHEAT.....Franklin, Ind.  
Indiana University, A.B., 1903.
- RICHTER, THEODORE BERTRAM.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
Harvard University, A.B., 1903.



- RIGGS, LAWRASON, JR.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- ROBERTS, RICHARD JOEL.....Sabetha, Kansas  
De Pauw University, Ph.B., 1895.
- ROBINSON, JAMES LATIMER.....(Bklyn) New York City  
Columbia University, A.B., 1904.
- SAYRE, LEWIS A.....(Mhtn) New York City  
Yale University, A.B., 1903.
- SCHLEY, REEVE.....(Mhtn) New York City  
Yale University, A.B., 1903.
- SCHROEDER, RUDOLPH.....Hoboken, N. J.  
Columbia University, A.B., 1903.
- SCHWEGLER, FREDERICK HENRY.....(Mhtn) New York City
- SHORT, HENRY BLOUNT, JR.....Lake Waccamaw, N. C.  
University of North Carolina, A.B., 1902.
- SMITH, CLAUDE ARCHER.....Owensville, Ind.  
Indiana University, A.B., 1903.
- SOLOTAROFF, DAVID HERTZ.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- SPRINGS, ALBERT ADAMS, JR.....Georgetown, S. C.  
South Carolina College, A.B., 1902.
- STARK, SAMUEL.....(Mhtn) New York City  
College of the City of New York, B.S., 1903.
- STERN, HARRY ROOT.....(Mhtn) New York City  
Yale University, A.B., 1903.
- STOWELL, HENRY WHITNEY.....New Haven, Conn.  
Harvard University, A.B., 1899.
- SWARTS, LOUIS EMANUEL.....(Mhtn) New York City  
Harvard University, A.B., 1903.
- SWORTFIGUER, HENRY BRAGDON.....(Mhtn) New York City  
Columbia University, A.B., 1904.
- THEIL, SIGMUND SIDNEY.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- TROY, ANDREW CHARLES.....(Bklyn) New York City  
Cornell University, A.B., 1903.
- TRUAX, HARRY.....Long Branch, N. J.
- UNGER, WILLIAM FRANK.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- UPDIKE, EDWIN HOYT.....(Mhtn) New York City  
Columbia University, A.B., 1904.
- VON BERNUTH, RUDOLPH LUDWIG.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- WALLSTEIN, LEONARD MICHAEL.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- WALZ, JACOB.....(Mhtn) New York City  
Columbia University, A.B., 1904.
- WEIL, JULIUS.....Lincoln, Neb.  
University of Nebraska, LL.B., 1903.
- WYATT, CHRISTOPHER BILLOPP.....(Mhtn) New York City  
Columbia University, A.B., 1903.

- YANCEY, GEORGE WILLIAM.....La Grange, Ga.  
 ZINSLER, JACOB JOSEPH.....(Mhtn) New York City  
 College of the City of New York, A.B., 1903.

Second Year—Class of 1906..... 99

# FIRST YEAR—CLASS OF 1907

- ARMSTRONG, DAVID.....Rahway, N. J.  
 Columbia University, A.B., 1901.  
 ASHLEY, DOUGLAS V.....Binghamton, N. Y.  
 Princeton University, A.B., 1904.  
 BAUM, ARTHUR.....(Mhtn) New York City  
 College of the City of New York, 1904.  
 BEACH, WESLEY HERMAN.....Colton, Cal.  
 Leland Stanford, Jr., University, A.B., 1900.  
 BEARY, JOHN VAN HAL.....Thibodaux, La.  
 Georgetown University, A.B., 1904.  
 BENNETT, EUGENE BRISTOL.....New Haven, Conn.  
 Yale University, Ph.B., 1904.  
 BILLINGSLEY, HORACE MCCOOK.....Lisbon, O.  
 Kenyon College, A.B., 1904.  
 BOGGS, NORMAN TOWAR.....East Orange, N. J.  
 Princeton University, A.B., 1904.  
 BROWER, FARRAND DODD.....(Mhtn) New York City  
 Columbia University, A.B., 1901.  
 BRYANT, WILLIAM SIDNEY, Jr.....(Mhtn) New York City  
 Columbia University, A.B., 1904.  
 BRYDE, EDWARD DUDLEY.....(Mhtn) New York City  
 Cornell University, A.B., 1904.  
 BURDICK, CHARLES KELLOGG.....(Mhtn) New York City  
 Princeton University, A.B., 1904.  
 CALLAHAN, FRANK.....Hartford, Conn.  
 Yale University, A.B., 1904.  
 CHAMBERS, ROBERT NEWTON.....Norwich, N. Y.  
 Princeton University, A.B., 1904.  
 CLARK, VERNON SEYMOUR.....Binghamton, N. Y.  
 Amherst College, A.B., 1904.  
 COCKRELL, MONCURE.....Deer Lodge, Mont.  
 University of Montana, B.S., 1904.  
 COHEN, ISIDORE.....(Mhtn) New York City  
 College of the City of New York, A.B., 1904.  
 COLLINGS, WILLIAM ASBURY.....Cicero, Ind.  
 De Pauw University, Ph.B., 1900.  
 CONANT, HARRISON JOSIAH.....Worcester, Mass.  
 Amherst College, A.B., 1904.  
 CUMMING, PRESTON, Jr.....Wilmington, N. C.  
 University of North Carolina, Ph.B., 1903.  
 DECKER, SYDNEY SYLVESTER, Jr.....Montour Falls, N. Y.  
 Princeton University, B.S., 1904.  
 DONOVAN, CLARENCE WALWORTH.....(Bklyn) New York City  
 St. Francis Xavier College, A.B., 1904.  
 DORSEY, CAM DAWSON.....Atlanta Ga.  
 University of Georgia, B.S., 1903.

- EGBERT, NATHAN ADAMS.....Springfield, Mass.  
 Harvard University, A.B., 1900.
- FEIFER, DAVID.....(Mhtn) New York City  
 College of the City of New York, A.B., 1904.
- FINE, JULIUS.....(Mhtn) New York City  
 College of the City of New York, A.B., 1904.
- FISCHER, HENRY BALDWIN.....(Mhtn) New York City  
 Yale University, Ph.B., 1904.
- FISHER, JOHN REDWOOD.....Swiftwater, Pa.  
 Columbia University, A.B., 1904.
- FISHER, WILLIAM.....Pensacola, Fla.  
 University of North Carolina, A.B., 1904.
- FLIEDERBLUM, HERMAN JAMES.....(Mhtn) New York City  
 College of the City of New York, A.B., 1904.
- FLUHRER, MINTON.....(Mhtn) New York City  
 Yale University, A.B., 1903.
- FRANKENTHALER, GEORGE.....(Mhtn) New York City  
 College of the City of New York, B.S., 1903.
- FRELINGHUYSEN, PETER H. B.....(Mhtn) New York City  
 Princeton University, A.B., 1904.
- FRIED, EDWARD SAMSON.....(Mhtn) New York City  
 Columbia University, A.B., 1904.
- GOODBODY, WILLIAM URWICK.....Haledon, N. J.  
 Williams College, A.B., 1904.
- GRIMLEY, EDWARD A.....(Br) New York City  
 Fordham College, A.B., 1903.
- HAGAN, FRANCIS MARION.....Springfield, O.  
 Wittenberg College, A.B., 1904.
- HARRIS, HERBERT HENRY.....(Mhtn) New York City  
 Columbia University, A.B., 1904.
- HAYS, CORNELIUS LANSING.....Albany, N. Y.  
 Union College, A.B., 1904.
- HEALY, ELLSWORTH JOHN.....(Br) New York City  
 St. John's College, B.S., 1904.
- HOERNER, GRANT.....Progress, Pa.  
 Dickinson College, A.B., 1896.
- HORAN, CHARLES THOMAS.....(Mhtn) New York City  
 Fordham College, A.B., 1902.
- HORNBLOWER, GEORGE SANFORD.....(Mhtn) New York City  
 Princeton University, A.B., 1904.
- HORNBLOWER, LEWIS WOODRUFF.....(Mhtn) New York City  
 Princeton University, A.B., 1904.
- IVINS, WILLIAM MILLS.....(Mhtn) New York City  
 Harvard University, A.B., 1901.
- JACKSON, FREDERICK WEIDEMEYER.....(Mhtn) New York City  
 Princeton University, A.B., 1904.
- JENKINS, MURRAY GOODLET.....(Mhtn) New York City  
 College of the City of New York, A.B., 1904.
- JONES, OLIVER LIVINGSTON, Jr.....(Mhtn) New York City  
 Yale University, A.B., 1904.
- KEITH, JOHN SLACK.....Newtown, Pa.  
 Princeton University, A.B., 1904.

- KING, GEORGE WILLIAM.....Springfield, Mass.  
Holy Cross College, A.B., 1904.
- KOBCHER, OTTO RUDOLPH.....(Bklyn) New York City  
Harvard University, A.B., 1904.
- KOHN, JEROME ARNOLD.....(Mhtn) New York City  
New York University, A.B., 1904.
- LA PETRA, WILBUR WHITFIELD.....Santiago de Chile, S. A.  
Ohio Wesleyan University, A.B., 1904.
- LANGWORTHY, HERMAN MOORE.....Leavenworth, Kansas  
University of Kansas, A.B., 1902; A.M., 1903.
- LEVY, EDWARD BENJAMIN.....(R) New York City  
College of the City of New York, A.B., 1904.
- LEWIS, JUNIUS POULLAIN.....Greensboro, Ga.  
University of Georgia, A.B., 1902.
- LEWISOHN, SAMUEL ADOLPH.....(Mhtn) New York City  
Princeton University, A.B., 1904.
- LUDLOW, THEODORE RUSSELL.....Sherman, Texas  
Austin College, A.B., 1903.
- LYNN, EDGAR ALLAN.....(Mhtn) New York City  
Princeton University, A.B., 1904.
- MACDONALD, JOHN JAMES.....Princeton, N. J.  
Princeton University, A.B., 1903.
- MACDONOUGH, PATRICK JOSEPH.....(Mhtn) New York City  
Notre Dame University, Ph.B., 1903.
- MACMANUS, JOSEPH.....Mexico City, Mexico  
Fordham College, A.B., 1904.
- MARCUS, AARON.....(Mhtn) New York City  
College of the City of New York, A.B., 1904.
- MARSH, THEODORE MCCURDY.....East Orange, N. J.  
Yale University, A.B., 1904.
- MCANENY, LEONARD GORDON.....Jersey City, N. J.  
Columbia University, A.B., 1904.
- MCCARY, THOMAS FRANK.....Bluefield, W. Va.  
Vanderbilt University, A.B., 1900.
- MCCOLL, CLARK ALEXANDER.....Westboro, Mo.  
Tarkio College, B.S., 1904.
- McKEE, THEOPHELUS JOHN.....Hartford, Conn.  
Trinity College, A.B., 1903.
- McLOUGHLIN, JAMES BERNARD.....(Br) New York City  
Fordham College, A.B., 1903.
- MICHAEL, JOSEPH.....(Mhtn) New York City  
College of the City of New York, B.S., 1903.  
Columbia University, A.M., 1904.
- MICHAEL, MAX.....Athens, Ga.  
University of Georgia, A.B., 1904.
- MILLER, MARK HUNTER.....Franklin, Ind.  
Franklin College, A.B., 1904.
- MOORE, PHILIPS ALEXANDER.....New Castle, Pa.  
Princeton University, A.B., 1904.
- MOSS, SOL DAVIS.....(Mhtn) New York City  
New York University, A.B., 1904.



- NAETHING, JOHN BINGHAM.....(Mhntn) New York City  
Yale University, Ph.B., 1904.
- NEWBORG, SIDNEY.....(Mhntn) New York City  
Williams College, A.B., 1904.
- OTTO, WALTER GUSTAV CARNES.....Hoboken, N. J  
Columbia University, A.B., 1904.
- PERRIN, EDWARD BURT, Jr.....Williams, Ariz.  
Harvard University, A.B., 1901.
- RILEY, NELSON STUDEBAKER.....South Bend, Ind.  
Yale University, A.B., 1904.
- RISING, HERBERT ROBINSON.....Newark, N. J.  
Yale University, Ph.B., 1900.
- ROBBINS, RUSSELL HURLBUT.....(Mhntn) New York City  
Harvard University, A.B., 1904.
- ROCKMORE, ABRAHAM.....(Bklyn) New York City  
College of the City of New York, A.B., 1904.
- ROOSEVELT, FRANKLIN DELANO.....(Mhntn) New York City  
Harvard University, A.B., 1903.
- ROSENHEIM, GERALD BENJAMIN.....Baltimore, Md.  
Johns Hopkins University, A.B., 1904.
- SAWYER, ARTHUR ESTCOURT.....(R) New York City  
Yale University, Ph.B., 1904.
- SCHENCK, MARTIN.....New Brunswick, N. J.  
Rutgers College, A.B., 1900.
- SCHLOSS, NORMAN PULVER STEVEN.....(Mhntn) New York City  
College of the City of New York, A.B., 1904.
- SCHWARTZ, FRANK.....(Mhntn) New York City  
College of the City of New York, A.B., 1903.
- SHAPIRO, DAVID IRVING.....(Mhntn) New York City  
College of the City of New York, B.S., 1904.
- SHELTON, CHARLES BASCOM.....Valdosta, Ga.  
Emory College, A.B., 1902.
- SHIENTAG, BERNARD LLOYD.....(Mhntn) New York City  
College of the City of New York, A.B., 1904.
- SHOREY, CLYDE EVERETT.....Seward, Neb.  
Nebraska State University, A.B., 1904.
- SHURTZ, HARRY FERGUSON.....West Lafayette, O.  
Oberlin College, A.B., 1904.
- SOLOMON, JOSEPH.....(Mhntn) New York City  
College of the City of New York, A.B., 1904.
- STEVENS, WELD MERRICK.....Greenwich, Conn.  
Princeton University, A.B., 1904.
- THOMAS, THEODORE GAILLARD.....(Mhntn) New York City  
Harvard University, A.B., 1904.
- TOY, CHANNING RUST.....(Mhntn) New York City  
Columbia University, A.B., 1904.
- TRUESDALE, JOSEPH ROBINSON.....Greenwich, Conn.  
Princeton University, B.S., 1904.
- UNTERMYER, ALVIN.....(Mhntn) New York City  
Princeton University, A.B., 1904.
- VAN CLEEF, FRANK CHAPMAN.....Wellington, O.  
Oberlin College, A.B., 1904.

WALLACH, KAUFMAN RICHARD.....	(Mhtn) New York City Columbia University, A.B., 1904.
WEIHE, HARRY AUGUSTUS.....	San Francisco, Cal. Leland Stanford, Jr., University, A.B., 1904.
WEINSTEIN, MORRIS.....	(Mhtn) New York City College of the City of New York, A.B., 1904.
WINGER, WALDO MCKIBBEN.....	Springfield, O. Wittenberg College, A.B., 1903. Princeton University, A.B., 1904.
WOLFF, JULIUS LOUIS.....	(Mhtn) New York City College of the City of New York, A.B., 1904.
WUPPERMANN, RALPH KUHNER.....	(Mhtn) New York City Columbia University, A.B., 1904.

First Year—Class of 1907..... 106

### SPECIAL STUDENTS

#### (a) *Unclassified Students for a Degree*

BRAGAW, ALLEN CLEVELAND.....	Hartford, Conn. Yale University, A.B., 1903.
COAN, RALPH ALONZO.....	Boulder, Colo. University of Colorado, A.B., 1904.
COOK, WALTER, Jr.....	(Mhtn) New York City Harvard University, A.B., 1902.
GOELET, ROBERT WALTON.....	Newport, R. I. Harvard University, A.B., 1902; A.M., 1903.
HELTZEN, OSCAR LEONARD.....	Providence, R. I.
MERRILL, EZRA BIRDETTE.....	Minneapolis, Minn.
NOHOWEL, FRANK PIERCE.....	Sayville, N. Y.
POWELL, JOHN ABBOTT.....	Rosendale, Wis.

#### (b) *Irregular Students*

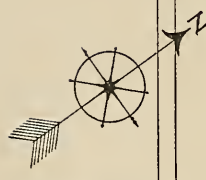
GOODMAN, FRANK VALENTINE.....	(Mhtn) New York City
WATTS, EDWARD SEABROOK.....	Montgomery, Ala. University of Alabama, LL.B., 1904.
WILLIAMS, HARRY PUSHOE.....	(Q) New York City New York University, LL.B., 1904.

Special Students..... 11

### SUMMARY

Third Year—Class of 1905.....	127
Second Year—Class of 1906.....	99
First Year—Class of 1907.....	106
Special Students.....	11
Total.....	343





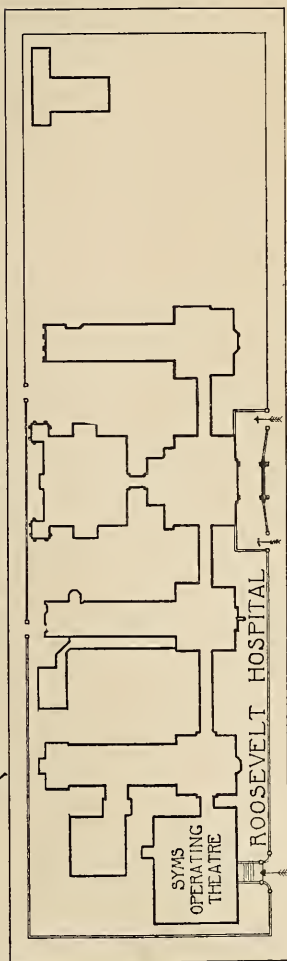
FIFTY EIGHTH STREET

AMSTERDAM

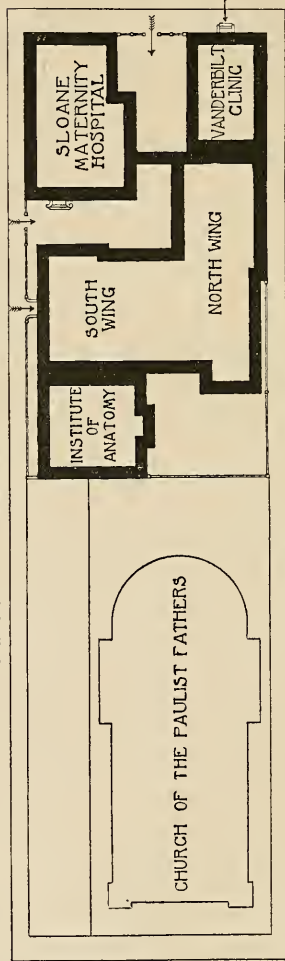
AVENUE

COLUMBUS

AVENUE

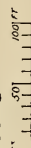


FIFTY NINTH STREET



SIXTIETH STREET

PLAN OF THE BUILDINGS AND GROUNDS  
COLLEGE OF PHYSICIANS AND SURGEONS  
COLUMBIA UNIVERSITY





## SCHOOL OF MEDICINE

### COLLEGE OF PHYSICIANS AND SURGEONS

The instruction in medicine is given under the following departments:

ANATOMY	HISTOLOGY
BACTERIOLOGY AND HYGIENE	NEUROLOGY
CHEMISTRY, GENERAL	OBSTETRICS
CHEMISTRY, PHYSIOLOGICAL	PATHOLOGY
CLINICAL INSTRUCTION IN DERMATOLOGY, GENITO - URINARY DISEASES, LARYNGOLOGY, OPHTHALMOLOGY, ORTHOPEDIC SURGERY, OTOLOGY	PEDIATRICS
CLINICAL PATHOLOGY	PHARMACOLOGY, MATERIA MEDICA, AND THERAPEUTICS
GYNECOLOGY	PHYSICS
	PHYSIOLOGY
	PRACTICE OF MEDICINE
	SURGERY

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#### Officers of the Faculty

SAMUEL W. LAMBERT, M.D.....	<i>Elected Delegate to the University Council, and Dean</i>
WALTER B. JAMES, M.D., LL.D.....	<i>Elected Delegate to the University Council</i>
JAMES DITMARS VOORHEES, M.D.....	<i>Secretary</i>

#### Committee on Administration

DRS. LAMBERT (Chairman), CURTIS, CRAGIN, JAMES, BLAKE, VOORHEES  
(Secretary)

#### Committee on Admissions

DRS. HUNTINGTON (Chairman), PRUDDEN, LAMBERT, VOORHEES (Secretary)

#### The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D.,	<i>President</i>
JOHN G. CURTIS, M.D., LL.D..	<i>Professor of Physiology, Delegate to the University Council</i>
M. ALLEN STARR, M.D., LL.D., Sc.D.....	<i>Professor of Neurology</i>
GEORGE S. HUNTINGTON, M.D., Sc.D.....	<i>Professor of Anatomy</i>
T. MITCHELL PRUDDEN, M.D., LL. D.,	<i>Professor of Pathology; Director of the Laboratories of Pathology, Clinical Pathology, Bacteriology and Hygiene, and Histology</i>

EDWIN B. CRAGIN, M.D.....	<i>Professor of Obstetrics and Gynecology</i>
WALTER B. JAMES, M.D., LL.D.....	<i>Bard Professor of the Practice of Medicine</i>
L. EMMETT HOLT, M.D., LL.D., Sc.D.....	<i>Carpentier Professor of Pediatrics</i>
CHRISTIAN A. HERTER, M.D.....	<i>Professor of Pharmacology and Therapeutics</i>
SAMUEL W. LAMBERT, M.D.....	<i>Professor of Applied Therapeutics, Dean</i>
JOSEPH A. BLAKE, M.D.....	<i>Professor of Surgery</i>
WILLIAM J. GIES, M.S., Ph.D.....	<i>Adjunct Professor of Physiological Chemistry</i>
HARRY MCMAHON PAINTER, M.D.....	<i>Professor of Clinical Obstetrics</i>
GEORGE E. BREWER, M.D.....	<i>Professor of Clinical Surgery</i>

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JAMES W. McLANE, M.D.....	<i>Emeritus Professor of Obstetrics</i>
EDWARD CURTIS, M.D.....	<i>Emeritus Professor of Materia Medica and Therapeutics</i>
FRANCIS DELAFIELD, M.D., LL.D....	<i>Emeritus Professor of the Practice of Medicine</i>
WILLIAM T. BULL, M.D.....	<i>Emeritus Professor of Surgery</i>

For other officers see the departmental statements.

### HISTORICAL STATEMENT

Kings College—the original foundation of Columbia University—organized a Medical Faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first individuals to graduate in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May, 1769, and that of Doctor of Medicine in May, 1770, and May, 1771, respectively. Instruction in medicine was given from this time on until the work of the College was broken up by the War of the Revolution. In 1784 an act was passed making Columbia College in the City of New York the successor of Kings College, and instruction was resumed in the academic department. Eight years later the Medical Faculty was re-established and was continued until 1814, when the Medical Faculty of Columbia College was merged in the College of Physicians and Surgeons, which had received an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the medical department of Columbia College, and from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the College was definitely merged in the University.

Since 1860 the degree of Doctor of Medicine has been conferred by Columbia University on 5356 men, including many of the most eminent practitioners in the United States.

### BUILDINGS, GROUNDS, AND EQUIPMENT

The College of Physicians and Surgeons was first situated at 18 Robinson Street from 1807 to 1809. From 1809 to 1813 it was at 12 Magazine Street; from 1813 to 1837 at 3 Barclay Street; from 1837 to 1856 at 67 Crosby Street; and from 1856 to 1887 at 101 East Twenty-third Street. It now occupies a group of buildings given by the late William H. Vanderbilt, his sons Cornelius, William K., Frederick W., and George W. Vanderbilt, and by William D. Sloane, which stands upon thirty contiguous lots of land, bounded on the south, west, and north by Fifty-ninth Street, Amsterdam Avenue, and Sixtieth Street, respectively, and lying immediately opposite to the Roosevelt Hospital.

#### The Main Building

The College Building proper has been designed to facilitate the combination of theoretical instruction with laboratory work, which is essential to a modern scientific training. In this building, which has a floor space of 100,000 square feet, are the lecture halls, the recitation rooms, and the different laboratories, under the supervision of their respective professors, all thoroughly equipped for the routine work of the regular classes and for the special original and research work of the advanced students, instructors, and professors of the several departments.

In this building are the administrative offices, the laboratories of Physiology, General and Physiological Chemistry, Surgery, Pharmacology and Pharmaceutics, the Morphological Museums and Laboratory, a dissecting room accommodating 400 students, and two large amphitheatres.

For a more detailed account of the equipment of each department see the departmental statements.

#### Vanderbilt Clinic

THE VANDERBILT CLINIC is a fully equipped dispensary for the sick poor. It also affords ample material for extended practical clinical instruction in the various departments of Medicine and Surgery, as the professors, with their clinical assistants, have the entire charge of its practice.

The building is so arranged that each department has a room for the practical instruction to students in small sections, in addition to the rooms devoted to the treatment of patients; besides, there is a large theatre for clinical lectures and a smaller lecture hall.

All modern appliances for the treatment of diseases have been intro-

duced, so that students can learn thoroughly the use of all methods in each department, and can thus acquire a practical knowledge of all the "specialties" in medicine.

During the year 1903-04, 44,378 patients were treated, making 147,046 visits to the Clinic.

For detailed information as to the clinical lectures held here, see the departmental statements in this volume, or the special *Announcement of the College of Physicians and Surgeons*.

### Sloane Maternity Hospital

BOARD OF MANAGERS: Mr. William D. Sloane, Dr. S. W. Lambert, Dean, Dr. George G. Wheelock, Dr. T. Mitchell Prudden, Dr. Walter B. James.

THE SLOANE MATERNITY HOSPITAL is situated at the corner of Fifty-ninth Street and Amsterdam Avenue, and the service is under the exclusive direction of the Professor of Obstetrics in the College of Physicians and Surgeons, the Instructor in Obstetrics being the Resident Physician. The wards of the Hospital furnish one hundred and sixteen beds, and there are ample accommodations for the house staff, students, and nurses. The operating room is equipped with all modern surgical and obstetrical conveniences and has seating accommodation for fifty-one students. When possible Professor CRAGIN holds operative clinics here.

The number of deliveries averages over fourteen hundred a year. These, with the obstetric operations and the subsequent treatment of women and infants, afford invaluable practical experience, such as is offered at no other medical school in this country.

### Clinics at the Hospitals

The College is strongly represented on the staffs of most of the general and special hospitals of New York. In them both required and optional practical instruction is given by clinical lectures, in the dispensaries, and at the bedside, all of which are prominent features of the curriculum. Admission is free to all matriculates. These hospitals are as follows: Roosevelt, Bellevue, New York, Presbyterian, St. Luke's, General Memorial, Hospital for the Ruptured and Crippled, St. Mary's Free Hospital for Children, Willard Parker and Reception, Riverside, Foundling, and the Babies' Hospital. For a detailed statement see the *Announcement of the College of Physicians and Surgeons*.

### Lectures

CARTWRIGHT LECTURES OF THE ALUMNI ASSOCIATION—According to the provisions of the Cartwright Trust, there is biennially given, under the auspices of the Alumni Association, a course of lectures more especially addressed to graduates in medicine. This course was de-



livered during the session of 1902-03 by Richard C. Cabot, M.D., of Boston.

### GENERAL PLAN OF INSTRUCTION

The prescribed period of study for the degree of Doctor of Medicine is four years.

By permission of the Dean of Columbia College, the first year in the School of Medicine may be elected by members of the senior class in Columbia College who became students in the College not later than the beginning of their junior year, so that the degrees of Bachelor of Arts or Science and that of Doctor of Medicine can be obtained in seven years.

As a pre-requisite to the study of medicine, the more complete the preliminary education of the student the sooner and with the more understanding will he grasp the advanced subjects forming the groundwork of a medical course. This especially applies to the one who has had a college training and has acquired a sufficient knowledge of physics, general chemistry, and general biology, sciences justly considered to be an essential part of a thorough medical education.

In the arrangement of the different branches of the medical instruction a logical order of the main themes and a co-ordination in the work of each department have been sought after, enabling the student to concentrate his attention upon some one subject and to be so familiar with it that the allied subjects next to be taken up shall be readily understood. The salient features in the method of instruction are thorough laboratory training, frequent demonstrations, clinical teaching in the operating theatres and at the bedside as well as in the dispensaries, with recitations and didactic lectures to elucidate the many problems confronting the student.

Records of attendance and scholarship are kept, and before a student may advance with his class he must, besides passing a good examination in a subject, present certificates of satisfactory practical work.

In the first half of the *First Year* the time of the student is devoted largely to anatomy. The instruction is carried on mainly by numerous demonstrations to sections and by long periods of uninterrupted work in the dissecting room. In this part of the year the subjects of physics and general chemistry are dealt with. Students who have pursued elsewhere substantially equivalent courses in physics and general chemistry may be exempted from the work in these departments on presentation of satisfactory certificates, or after satisfactory examinations. In place of these subjects, if such students have a sufficient knowledge of biology they may take the course in physiological chemistry which is regularly given in the second year. Such students are also assigned to the histological laboratory for the first half-year. In the second half of the first year the study of physiology is begun, for which the students have been prepared by a course in

mammalian morphology. This subject is taught by didactic lectures, demonstrations, recitations, and practical work in the laboratory. At the same time the work in anatomy is continued, and one half of the class takes up the study of histology.

In the *Second Year* anatomy and physiology are completed. Physiological chemistry is studied in the laboratory and by lectures and recitations for half of the year. At the same time laboratory courses in pharmacology and bacteriology are pursued. As preliminaries to the third and fourth years, recitations from books are held in medicine, obstetrics, and materia medica, and instruction in surgery is begun.

During the *Third Year* recitations in medicine are continued and those in surgery, pediatrics, therapeutics, and gynecology are begun. There are didactic as well as clinical lectures in medicine, surgery, pharmacology, applied therapeutics, obstetrics, gynecology, neurology, and pediatrics, while the work of pathology, pathological anatomy, and clinical pathology is completed. The class is divided into small sections for instruction in physical diagnosis, and in the special branches of medicine and surgery at the various dispensaries and hospitals.

The student in the *Fourth Year* spends most of his time in the hospitals and dispensaries of the city. Consequently, although a few general and clinical lectures are still given, the work is almost entirely practical and bedside instruction. Divided into small groups, the students continue to come into personal contact with patients, under the supervision of the instructor. In this way they have the opportunity to become familiar with the history of a case, to make a complete physical examination, to form a diagnosis, to give a prognosis, to advise treatment, and to watch progress.

In the course in surgery the witnessing of numerous major and minor operations is supplemented by an operative course in which the student himself performs on the cadaver many of the more common operations. For an obstetrical service, the unsurpassed facilities of the Sloane Maternity Hospital offer excellent opportunities. Here the student is required to live for two weeks and personally attend a certain number of cases of labor. Finally, during the last year, the course is rounded out by personal instruction in the more special branches of medicine. In these branches the student is taught how to use many instruments of precision and to recognize and treat successfully many of the rarer forms of disease.

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Letters requesting more detailed information than is contained in this Catalogue, and all correspondence regarding admission, should be addressed to the Secretary of the Faculty of Medicine, 437 West Fifty-ninth Street.

Information regarding board and lodging may be had from the

Assistant Registrar. The price of suitable accommodations in the vicinity ranges from \$5 to \$9 per week.

## REQUIREMENTS FOR ADMISSION

### To the First-Year Class

All candidates for the degree of Doctor of Medicine must present the medical-student certificate of the Regents of the University of the State of New York, granted on the basis of one or the other of the certificates named below:

(1) A certificate indicating (a) that the candidate has completed at least one full year's course of study in a college or scientific school registered by the Regents as maintaining a satisfactory standard; (b) that he holds a Bachelor's degree in arts or science, or its substantial equivalent conferred by any registered institution in France or Spain; (c) that he is graduated from a registered gymnasium in Germany, Austria, or Russia, or has completed a course of study equivalent thereto—as, for example, a course of five years in a registered Italian ginnasio and three years in a liceo.

(2) A certificate of the result of an examination conducted in June of any year by the College Entrance Examination Board, or in September of any year under the auspices of the Columbia University Committee on Entrance Examinations, or in part for both of these in the subjects enumerated below. These two sets of examinations are held upon the same requirements and are substantially the same in standard and administration. Candidates may forward their credentials received from either or both of these examining authorities to the Secretary of the Regents of the University of the State of New York, Albany, N. Y., and if they aggregate the necessary 15 points will receive in exchange therefor the medical-student certificate required for admission to the College of Physicians and Surgeons. Before forwarding his credentials to Albany, a candidate should present them to the Secretary of the Faculty of Medicine for a written certification as to the number of points with which on their basis a candidate may be credited. No part of the requirements which a candidate may pass will be allowed to stand to his credit for a longer period than sixteen months.

A "point" is regarded as being the equivalent of a course of study of five weekly periods throughout the academic year. The University publishes annually an Announcement of Entrance Examinations which gives a detailed definition of the requirement in each subject. This Announcement may be had upon application to the Secretary of Columbia University.

The examination subjects from which the candidate for admission to the College of Physicians and Surgeons must make his selection are as follows<sup>1</sup>:

<sup>1</sup> For full definitions of the following Requirements see pages 194-208.

		COUNTING IN POINTS
The candidate <i>must</i> offer:		
English	.	3
Elementary French	}	2
or		
Elementary German		
Elementary Latin, first half (Grammar and Composition, and either 4 books of Cæsar or 6 Orations of Cicero, or 6 books of Vergil's <i>Æneid</i> )	.	2
Elementary Mathematics	.	3
Total	.	10

The 5 additional points may be offered from the following subjects, the only restriction being that to offer an advanced subject will involve offering, either at the same time or earlier, the corresponding elementary subject.

		COUNTING IN POINTS
Elementary French, if not offered as above.	.	2
Elementary German, if not offered as above	.	2
Elementary Greek	.	3
Elementary History	.	2
$\frac{1}{2}$ Elementary Latin (4 books of Cæsar, or 6 orations of Cicero, or 6 books of Vergil's <i>Æneid</i> , Latin Composition II., and sight translation)	.	2
Elementary Physics	.	I
Botany	.	I
Chemistry	.	I
Drawing	.	I
Physiography	.	I
Spanish	.	2
Zoölogy <sup>1</sup>	.	I
Intermediate French	.	I
Intermediate German	.	I
Advanced Greek <sup>1</sup>	.	I
Advanced History <sup>1</sup>	.	I
Advanced Latin <sup>1</sup>	.	I
Advanced Mathematics	.	I
Advanced Physics <sup>1</sup>	.	I

The June examinations of the College Entrance Examination Board are held simultaneously at a large number of places throughout the United States and at several points in Europe. The September examinations, under the authority of the University Committee on Entrance Examinations, are held at Columbia University only. In 1905, the examinations will be held June 19-24 and September 18-23.

For information as to the dates upon which applications for examination, either at Columbia University or elsewhere, must be filed, and for all other details regarding the administration of the examinations, inquirers are requested to consult without delay the Announcement of Entrance Examinations for 1905.

<sup>1</sup> Candidates will be examined in this subject only in September.



*Admission with Conditions*

Candidates who do not receive a grade of at least C (fair — 60 % to 75 %) in subjects amounting to at least 12 of the 15 points offered, will be rejected.

Candidates who receive a grade of C (fair — 60 % to 75 %) in subjects amounting to not less than 12 of the 15 points offered, will be admitted conditionally, under such stipulations as the Committee on Admissions of the Faculty of Medicine may impose; but, in every case, conditions imposed at entrance must be removed before the student is admitted to the second year of the course. Such candidates must submit to the Committee their credits from the College Entrance Examination Board and from the University Committee on Entrance Examinations of Columbia University on or before September 27, 1905.

**To Advanced Standing**

Admission may be granted to advanced standing at the beginning of the second or third year, and, with the special consent of the Faculty, of the fourth year.

Every applicant for advanced standing will be required (1) to present evidence of having had a sufficient preliminary education, meeting the requirements for admission to the first-year class; (2) to present satisfactory evidence of having attended, in a recognized medical school, courses reasonably equivalent to those already attended by the class to which he seeks admission; (3) to be examined for admission in all the subjects in which the said class shall have been examined already.

No certificate or diploma will be accepted in lieu of these examinations for advanced standing.

A candidate for admission to advanced standing at the beginning of the second or third year may be so admitted either unconditionally or conditionally. In the latter case, his admission will be upon the same terms as govern students who have pursued at this College the curriculum of the first or second year.

During the week before the opening of the academic year examinations in each subject of the curriculum of the Medical School will be held for delinquent students and for candidates for admission to advanced standing.

**As Special Students**

Students desiring to do special work at the College of Physicians and Surgeons may matriculate at any time during the year as special students. Such applicants, however, cannot subsequently become candidates for graduation without full compliance with the terms of admission and graduation.

Special students will be required to present to the Committee on Admission before entrance evidence of (a) an adequate preliminary

education, and (b) special fitness for the particular work they desire to pursue.

### REQUIREMENTS FOR GRADUATION

Every candidate in the four-year course will be required before admission to the degree of M.D.:

1. To present satisfactory evidence, as required by law, of good moral character, and of having attained the age of twenty-one years.
2. To present evidence of having complied with the requirements for admission.
3. To have attained to satisfactory standing in the required studies of the four years of the curriculum. See table, page 267.
4. A candidate who shall have been admitted to advanced standing will be required to have spent not less than four academic years at the studies referred to in the clause next preceding; and to have complied successfully with the requirements for admission to advanced standing.

No two academic years which shall have begun during the same calendar year will be held to satisfy the requirements of the above clause.

### THE DEGREE OF MASTER OF ARTS

The attention of students of Medicine is directed to Rule 10 of the Regulations for the Higher Degrees (page 209).

Students in the School of Medicine who are candidates for the degree of Master of Arts, under the provisions of this regulation, are subject to the regulations of the Faculty of Philosophy, Political Science, or Pure Science, under which the extra work is taken, and which finally recommends the candidates for the degree. Such students should apply to the Dean of the appropriate Faculty for a registration-book before taking up their work.

### SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES

For the Alonzo Clark Scholarship, see page 47.

For the University Fellowships, see page 32.

For the Alumni Association Fellowships, see page 46.

For the Proudft Fellowship, see page 47.

For the Harsen Scholarships, see page 47.

For the Alumni Association Prize, see page 47.

For the Cartwright Prize, see page 48.

For the Stevens Triennial Prize, see page 48.

For the Joseph Mather Smith Prize, see page 48.

### EQUIPMENT AND COLLECTIONS

Detailed information as to the laboratories, collections, and other facilities for study will be found in the statements of the various departments of instruction, pages 65-190, and more fully in the *Announcement of the College of Physicians and Surgeons*.

# COURSE OF STUDY LEADING TO THE DEGREE OF M.D.

(A much more detailed summary will be found in the special *Announcement of the College of Physicians and Surgeons*. The *Announcement* also gives full information as to the method whereby the standing of a student is determined at the end of each of the four years of the course.)

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Physics <sup>3</sup> <sub>1</sub> Chemistry <sup>1</sup> <sub>1</sub> , <sup>2</sup> <sub>3</sub> Anatomy <sup>2</sup> <sub>3</sub> , <sup>3</sup> <sub>5</sub> , <sup>10</sup> Normal Histology <sup>1</sup> Physiology <sup>3</sup> <i>Examinations upon the work of the first year</i>	Anatomy <sup>1</sup> <sub>6</sub> , <sup>7</sup> <sub>8</sub> , and <sup>9</sup> Physiology <sup>3</sup> Pathology <sup>1</sup> Bacteriology and Hygiene <sup>1</sup> Materia Medica, Pharmacology, and Therapeutics <sup>1</sup> , <sup>2</sup> , <sup>3</sup> Obstetrics <sup>2</sup> Practice of Medicine <sup>8</sup> Physiological Chemistry <sup>4</sup> Surgery <sup>8</sup> <i>Examinations upon the work of the second year</i>	Materia Medica, Pharmacology, and Therapeutics <sup>4</sup> , <sup>5</sup> , <sup>8</sup> Pathology <sup>2</sup> , <sup>3</sup> Practice of Medicine <sup>1</sup> , <sup>2</sup> , <sup>4</sup> , <sup>7</sup> , <sup>9</sup> Neurology <sup>1</sup> Surgery <sup>1</sup> , <sup>2</sup> , <sup>3</sup> , <sup>7</sup> Obstetrics <sup>1</sup> Gynecology <sup>1</sup> , <sup>2</sup> Genito-Urinary Diseases <sup>1</sup> , <sup>2</sup> , <sup>3</sup> Ophthalmology <sup>1</sup> , <sup>2</sup> Otology <sup>1</sup> , <sup>2</sup> Pediatrics <sup>1</sup> , <sup>4</sup> , <sup>7</sup> , <sup>8</sup> Clinical Pathology <sup>1</sup> <i>Examinations upon the work of the third year</i>	Practice of Medicine <sup>1</sup> , <sup>2</sup> , <sup>3</sup> , <sup>5</sup> , <sup>6</sup> , <sup>9</sup> Neurology <sup>1</sup> , <sup>2</sup> , <sup>3</sup> , <sup>4</sup> Surgery <sup>2</sup> , <sup>4</sup> , <sup>5</sup> , <sup>6</sup> , <sup>7</sup> Orthopedic Surgery <sup>1</sup> , <sup>2</sup> Obstetrics <sup>3</sup> Gynecology <sup>1</sup> , <sup>3</sup> , <sup>4</sup> Dermatology <sup>1</sup> , <sup>2</sup> Pediatrics <sup>2</sup> , <sup>3</sup> , <sup>5</sup> Laryngology <sup>1</sup> , <sup>2</sup> , <sup>3</sup> <i>Examinations upon the work of the fourth year</i>

<sup>1</sup> In all subjects which are not completed in a single year, the instruction offered to a given student is different each year.

Consult the departmental statements (pp. 65-190) for:

- (1) The scope of each course, the number of hours required for it, and the instructors giving it;
- (2) Information regarding the courses open to special (graduate) students in medicine;
- (3) Courses which may be counted towards the degrees of A.M. and Ph.D.

Students who have pursued elsewhere courses in physics and general chemistry substantially equivalent to those given at this College, may be exempted from the work in those subjects on presentation of satisfactory certificates, or after satisfactory examination. In view of this fact students intending to pursue the study of medicine are recommended, in their preliminary education, to take thorough courses in physics and chemistry, including laboratory work in each.

## REQUIREMENTS FOR LICENSE TO PRACTISE MEDICINE IN NEW YORK STATE

For information, see the *Announcement of the College of Physicians and Surgeons*.

### SUMMER SESSION IN MEDICINE

Practical courses in medicine, varying from three to six weeks in length, for the benefit of practising physicians who desire opportunities for additional study and investigation, as well as for that of properly qualified students of medicine and surgery, are given from May until September of each year.

A general statement of the work offered will be found in connection with the statement of the Summer Session (see the Table of Contents), this volume, and a detailed announcement, showing the scope of each course, the conditions under which it is given, and the fee charged, will be sent upon application to the Secretary of Columbia University, New York City.

Students who have satisfactorily completed the practical clinical courses in this Summer Session may be excused from equivalent courses required for the degree of M.D.



## REGISTER OF STUDENTS

### College of Physicians and Surgeons

#### FOURTH YEAR—CLASS OF 1905

AGOSTINI, VICTORIANO DIEGO Y GODOY.....	Santiago, Cuba Provincial Institute, Santiago, A.B., 1898.
ALLERS, CHARLES LAWRENCE.....	(R) New York City
ARMSTRONG, EDGAR BOND.....	Paterson, N. J.
AUCHINCLOSS, HUGH.....	(Mhtn) New York City Yale University, A.B., 1901.
AUERBACH, JULIUS.....	(Mhtn) New York City
BARKER, PERCEVAL MARTIN.....	(Mhtn) New York City
BARRETT, FREDERICK JAMES.....	(Bklyn) New York City
BARTLETT, FREDERIC HUNTINGTON.....	(Mhtn) New York City Harvard University, A.B., 1895. Columbia University, A.M., 1898.
BARTOW, CLARENCE WHITTEMORE.....	South Orange, N. J. Columbia University, A.B., 1902.
BAUMGARD, HANS GEORGE.....	(Mhtn) New York City New York University, B.S., 1901.
BENNETT, JOHN ALBERT.....	Elmira, N. Y.
BERNSTEIN, LUIS PHILLANDUS.....	(Mhtn) New York City College of the City of New York, B.S., 1901.
BLACK, ROSS ELLIOT.....	Huntington, Penn.
BOCKSHITZKY, BENJAMIN JOSEPH.....	(Mhtn) New York City
BONIME, ELLIS.....	(Mhtn) New York City
BONYNGE, HENRY ARTHUR.....	Hoboken, N. J.
BOURKE, JOHN FRANCIS.....	(Mhtn) New York City
BOYD, CARLISLE STORM.....	(Br) New York City
BOYD, WILLIAM BALLANTINE.....	(Mhtn) New York City College of the City of New York, B.S., 1897.
BRADY, JOHN STANISLAUS.....	(Mhtn) New York City Georgetown University, A.B., 1901.
BRAUN, JACOB.....	(Mhtn) New York City
BROWN, ROBERT MERIDA.....	Lamar, Mo. Harvard University, A.B., 1901.
BRUNDAGE, PHILIP EDWIN.....	Hoboken, N. J. Princeton University, A.B., 1900.
BRUNING, HENRY FREDERICK.....	(Bklyn) New York City
BRYANT, MASON DAVID.....	Dracut, Mass.
BUCANS, LOUIS.....	(Mhtn) New York City
CHAMBERLAIN, AMIS READING.....	Warwick, N. Y. Yale University, A.B., 1901.
CHAMBERS, JOHN SWOPE DAVIS.....	Davenport, Iowa
CHILDS, JOHN HENRY.....	Paterson, N. J.

- CLARKE, LOUIS VINCENT.....Pawtucket, R. I.  
 COHEN, HERMAN.....(Br) New York City  
 COHEN, LOUIS.....(Bklyn) New York City  
 COLIE, EDWARD MARTIN, JR.....East Orange, N. J.  
     Columbia University, A.B., 1902.  
 CONLON, PATRICK JOSEPH.....Worcester, Mass.  
     Holy Cross College, A.B., 1901.  
 CORCORAN, DAVID.....Thompson Ridge, N. Y.  
 CORDNER, ROBERT.....Middletown, N. Y.  
     New York College of Pharmacy, Ph.G., 1895.  
 COTTLE, GEORGE FRANKLIN.....(Mhtn) New York City  
     College of the City of New York, B.S., 1898.  
 CRONIN, EUGENE JOHN.....Worcester, Mass.  
 DAVID, CHARLES THOMAS.....(Mhtn) New York City  
 DEKLYN, CHARLES CAMPBELL.....(Mhtn) New York City  
 DEROW, DAVID.....(Mhtn) New York City  
 DICKINSON, FRANCIS MCLEAN.....Rockville, Conn.  
     Yale University, Ph.B., 1900.  
 DODD, SAMUEL WARD.....Newark, N. J.  
     Princeton University, B.S., 1901.  
 DRISCOLL, GEORGE CORNELIUS.....Stanley, Ontario, Canada  
 DWIGHT, KIRBY.....(Mhtn) New York City  
     Princeton University, A.B., 1901.  
 EMORY, GEORGE BACHE.....Syracuse, N. Y.  
     Harvard University, A.B., 1902.  
 EVANS, ARCHIBALD PARKER.....(Bklyn) New York City  
 FIASCHI, PIERO.....Sydney, Australia  
 FRANKEL, EDWARD, JR.....(Mhtn) New York City  
 FRIEDMAN, HENRY MENDEL.....(Mhtn) New York City  
 FRUCHT, SIMON.....(Mhtn) New York City  
     College of the City of New York, B.S., 1900.  
 FRUCHTHANDLER, EDWARD ALFRED.....(Bklyn) New York City  
 GASKINS, JOHN DARBY.....Starke, Fla.  
 GERSTER, JOHN CARL ARPAD.....(Mhtn) New York City  
     Columbia University, A.B., 1902.  
 GINSBURGH, EDWARD LYON.....(Mhtn) New York City  
 GOLDFARB, SAMUEL JESSE.....(Mhtn) New York City  
 GRAHAM, HENRY FLACK.....Albany, N. Y.  
 HABERMAN, JULES VICTOR.....(Mhtn) New York City  
     Columbia University, A.B., 1904.  
 HAGEN, ORVILLE REED.....Troy, N. Y.  
 HAMBURGER, GABRIEL.....(Mhtn) New York City  
     College of the City of New York, A.B., 1901.  
 HARBECK, CHARLES JOHN.....(Mhtn) New York City  
     Harvard University, A.B., 1900.  
 HARRIGAN, ANTHONY HART.....(Bklyn) New York City  
 HARRIS, LOUIS ISRAEL.....(Mhtn) New York City  
 HART, FRANCIS BERNARD.....(Bklyn) New York City  
 HARWICH, MOSES.....(Mhtn) New York City  
 HAYES, PLINY HAROLD.....Buffalo, N. Y.  
     Yale University, A.B., 1900.  
 HAYS, HAROLD MELVIN.....(Mhtn) New York City  
     Columbia University, A.B., 1902.  
 HEIMANN, WALTER JAMES.....(Mhtn) New York City  
     Columbia University, A.B., 1901.

- HEIN, THEODORE LEACRAFT.....(Mhtn) New York City  
 HEINE, JOSEPH.....(Mhtn) New York City  
 HELLMAN, ALFRED M.....(Mhtn) New York City  
     Columbia University, A.B., 1902.  
 HITLIN, ALEXANDER.....(Bklyn) New York City  
 HOLLAND, HARRY STEERS.....(Mhtn) New York City  
     Columbia University, A.B., 1902.  
 HULL, ALLEN.....(Bklyn) New York City  
 HUNT, CHARLES SPALDING.....Brooklyn, Conn.  
 HUTCHESON, ALLEN CARRINGTON.....Houston, Tex.  
     University of Virginia, A.B., 1901.  
 HUTCHINSON, ROBERT HAMILTON, JR.....(Mhtn) New York City  
 HUTTON, ARTHUR LEFFERTS.....(Mhtn) New York City  
 HYAMS, JOSEPH ANDREW.....(Mhtn) New York City  
 HYMAN, ABRAHAM.....(Mhtn) New York City  
 ISKOWITZ, HENRY.....(Mhtn) New York City  
 JACKSON, ALBERT F.....Campgaw, N. J.  
 JAFFIN, ABRAHAM EZRA.....Jersey City, N. J.  
 JAMESON, JAMES WALKER.....Antrim, N. H.  
     Princeton University, A.B., 1901.  
 JOHNSTON, MARIUS EARLY.....Lexington, Ky.  
     Kentucky State College, B.S., 1900; M.S., 1901.  
 JOYCE, EDWARD RAPHAEL.....Lewiston, Me.  
     Holy Cross College, A.B., 1901.  
 KAEMPFER, LOUIS GABRIEL.....(Mhtn) New York City  
     College of the City of New York, B.S., 1900.  
 KALISKI, DAVID JOHN.....(Mhtn) New York City  
 KANNER, SAMUEL HENRY.....(Mhtn) New York City  
 KANTER, JOSEPH BERNARD.....(Mhtn) New York City  
 KAUNITZ, JULIUS.....Tampa, Fla.  
 KELLER, JACOB ADLAI.....(Mhtn) New York City  
 KELLER, SIDNEY CLARENCE.....Paterson, N. J.  
 KEUNE, HARRY AUGUST.....(Mhtn) New York City  
 KOFF, JAMES JESSAI.....(Mhtn) New York City  
 KOHN, BERNARD.....(Mhtn) New York City  
 KRUMWIEDE, CHARLES, JR.....(Mhtn) New York City  
     Columbia University, A.B., 1902.  
 KURPICK, CONRAD FREDERICK.....Paterson, N. J.  
     St. Peter's College, A.B., 1901.  
 KUTSCHER, MARTIN.....(R) New York City  
 LATTI, JEFFERSON BROWN.....Friendship, N. Y.  
 LESLIE, CHARLES THOMAS.....(Bklyn) New York City  
     Massachusetts Agricultural College, B.S., 1901.  
 LEVANT, HARRY LAZAROUS.....(Mhtn) New York City  
 LEVIN, CHARLES.....(Mhtn) New York City  
 LEVY, HARRY.....Johns, Ala.  
     University of Alabama, A.B., 1901.  
 LEWIS, MURNEY EDWARD.....Fulton, N. Y.  
 LINDSAY, GORDON.....(Mhtn) New York City  
     New York College of Pharmacy, Ph.G., 1897.  
     Columbia University, B.S., 1901.  
 LIPSCHUTZ, JACOB MAXIMILIAN.....(Br) New York City  
 MCCOY, THOMAS CRESAP.....Kirkwood, Del.  
 McCROSKERY, JAMES HARRY.....Union, N. J.  
 McDERMOTT, JOSEPH ZIMMERMAN.....Freehold, N. J.

- MABEY, J. CORWIN.....Montclair, N. J.  
 MACDONALD, ARTHUR FRANCIS.....Waterbury, Conn.  
 MACINTYRE, CLIFFORD BURNETT.....(Mhtn) New York City  
     Columbia University, A.B., 1902.  
 MARGULIES, ALBERT CARLYLE.....(Bklyn) New York City  
 MARTIN, NATHAN BARNERT.....Paterson, N. J.  
 MARTLAND, HARRISON STANFORD.....Newark, N. J.  
     Western Maryland College, A.B., 1901.  
 MEINZER, MARTIN STOETZEL.....South Amboy, N. J.  
     Rutgers College, B. S., 1901.  
 MELONEY, LESTER FOYE.....Clifton, N. J.  
 MERRILL, GEORGE ADAMS.....(Mhtn) New York City  
     College of the City of New York, A.B., 1901.  
 MEYER, HARRY AHREND.....(Bklyn) New York City  
 MOGULESKO, JULIUS LAURANCE.....(Mhtn) New York City  
 MOUNT, WALTER BARCLAY.....East Orange, N. J.  
     Princeton University, A.B., 1901.  
 NARINS, WILLIAM.....(Mhtn) New York City  
 NEER, FRANK YEOMANS.....Paterson, N. J.  
 NELSON, JOHN FRANCIS.....(Mhtn) New York City  
 NEMOITIN, JACOB.....(Mhtn) New York City  
 NEUHOF, HAROLD.....(Mhtn) New York City  
 NEUWELT, LOUIS.....(Mhtn) New York City  
     College of the City of New York, A.B., 1901.  
 NEWMAN, REUBEN.....(Mhtn) New York City  
 NISSELSON, MAX.....(Mhtn) New York City  
 NOEHREN, ALFRED HENRY.....(Mhtn) New York City  
     College of the City of New York, A.B., 1900.  
 ORLANDO, VINCENT JAMES.....(Mhtn) New York City  
 OTTENBERG, REUBEN.....(Mhtn) New York City  
     Columbia University, A.B., 1902.  
 PARK, EDWARDS A.....Oberlin, O.  
     Yale University, A.B., 1900.  
 PARKER, LEO AMBROSE.....Portsmouth, Va.  
     Rock Hill College, A.B., 1898; A.M., 1904.  
 PETTIT, ROBERT WALTER.....New Brunswick, N. J.  
     Rutgers College, A.B., 1900.  
     Yale University, A.M., 1901.  
 POWERS, MARTIN THOMAS.....Oxford, N. Y.  
 POZDENA, OTTO RUDOLF.....(Mhtn) New York City  
 PRENTISS, RALPH NEWBURY.....Holyoke, Mass.  
     Baltimore Medical College, M.D.  
 PRESCOTT, CHARLES IRVILLE.....Meredith, N. H.  
     Dartmouth College, B.L., 1901.  
 PUMYEA, P. CLINTON.....Allentown, N. J.  
     Princeton University, B.S., 1901.  
 QUINN, CHARLES MICHAEL.....Milwaukee, Wis.  
 RADGIK, BENJAMIN.....(Mhtn) New York City  
     College of the City of New York, B.S., 1900.  
 RICKETTS, HENRY ERNEST.....Poughkeepsie, N. Y.  
 ROMANO, SALVATORE CRISENZA.....(Mhtn) New York City  
 ROSENBERG, ABRAHAM.....(Mhtn) New York City  
 ROSENHECK, CHARLES.....(Mhtn) New York City  
 ROSENSTEIN, HENRY.....(Mhtn) New York City



- RUBIN, ISIDOR.....(Mhtn) New York City  
 RYAN, RALPH R.....Sharon, Conn.  
     Yale University, A.B., 1902.
- RYAN, SYLVESTER EDWARD.....Springfield, Mass.  
 ST. JOHN, WARREN WALLACE.....Troy, N. Y.  
 SANDERS, GEORGE.....(Mhtn) New York City  
     New York University, LL.M., 1897.
- SCHAEFER, EUGENE PAUL.....Newark, N. J.  
 SCHAPIRO, JOSEPH.....(Mhtn) New York City  
     College of the City of New York, B.S., 1901.
- SCHAYER, MAX.....(Mhtn) New York City  
 SCHULMAN, MAXIMILIAN.....(Mhtn) New York City  
 SCHWARTZ, DAVID BARNETTE.....(Bklyn) New York City  
 SCHWARTZ, MYER EASER.....(Mhtn) New York City  
 SEROTA, HARRY MOSES.....(Mhtn) New York City  
 SHAPIRO, ABRAHAM ISADORE.....Yonkers, N. Y.  
 SHENSTONE, NORMAN STRAHAN.....Toronto, Ont., Canada  
     Toronto University, A.B., 1901.
- SMITH, GEORGE MILTON.....(Mhtn) New York City  
     Yale University, A.B., 1901.
- SMITH, JOSEPH JACOB.....Hudson, N. Y.  
 SMITH, MALCOLM EADIE.....Grand Rapids, Mich.  
 SMITH, STAFFORD BAKER.....Hyannis, Mass.  
 SMITH, WILLIAM SIDNEY.....Yaphank, N. Y.  
 SODEN, GEORGE ARTHUR.....Newark, N. J.  
 SOLLEY, FRANK DEMING.....Bethel, Conn.  
 STARR, ISAAC PHILIP.....(Mhtn) New York City  
 STEVENS, HARRY HARRINGTON.....Yonkers, N. Y.  
     New York College of Pharmacy, Ph.G., 1899.
- SWIFT, MILNE BARKER.....Fall River, Mass.  
 TERRY, WALTER RAYMOND.....Patchogue, N. Y.  
     Wesleyan University, A.B., 1901.
- TIFFANY, WILLIAM JAMES.....Richford, N. Y.  
 TOWNSHEND, RAYNHAM.....New Haven, Conn.  
     Yale University, Ph.B., 1900.
- TULIPAN, LOUIS.....(Mhtn) New York City  
 VALENTINE, JULIUS JOHN.....(Mhtn) New York City  
 VEVE, JOHN.....Fajardo, Porto Rico  
     Porto Rico University, A.B., 1897.
- VILLOLDO, PEDRO.....Havana, Cuba  
 VOLK, MAX.....(Mhtn) New York City  
 VOORHEES, IRVING WILSON.....Griggstown, N. J.  
     Princeton University, B.S., 1901.
- WERTHEIM, LEOPOLD LEO.....(Bklyn) New York City  
 WHITE, DAVENPORT.....Cannon, Conn.  
     Yale University, Ph.B., 1901.
- WHITE, ROBERT POTTS.....Jersey City, N. J.  
 WILSON, JOHN ROBERT.....Hoosick Falls, N. Y.  
 WISANSKY, JACOB.....(Mhtn) New York City  
     College of the City of New York, B.S., 1901.
- WOLF, JACOB IRVING.....(Mhtn) New York City  
     College of the City of New York, B.S., 1901.
- WRIGHT, HAROLD WALGROVE.....Elizabeth, N. J.

ZEILER, AVRUM HERMAN.....Leadville, Colo.  
 ZIGLER, MAX.....(Mhntn) New York City

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### THIRD YEAR—CLASS OF 1906

ABRAMS, SAMUEL DOUGHTY.....Lawrence, R. I.  
 APPLEGATE, EDWARD TAYLOR RIGGS, JR.....Hightstown, N. J.  
 Princeton University, B.S., 1902.

ASTLE, CHRISTOPHER.....Providence, R. I.  
 Brown University, A.B., 1902.

BAKER, ROLLIN OLIVER.....Lockport, N. Y.  
 BAKST, JOSEPH.....(Mhntn) New York City  
 BARROWS, STERLING.....Orange, N. J.  
 BARTLETT, LAURENCE STEWART.....(Mhntn) New York City  
 Princeton University, A.B., 1901.

BAYLES, WILLIAM HENRY.....New Rochelle, N. Y.  
 BERNSTEIN, MAX.....(Mhntn) New York City  
 BICKELHAUPT, BERTRAM SAMUEL.....(Mhntn) New York City  
 BIRDSALL, CLARENCE ATHERTON.....Jersey City, N. J.  
 BOOKMAN, MILTON RALPH.....(Br) New York City  
 BOSWELL, JOHN ARTHUR.....Amsterdam, N. Y.  
 BRANCATO, PETER.....(Mhntn) New York City  
 BURNHAM, ATHEL CAMPBELL.....Mt. Vernon, N. Y.  
 BURROWS, ELLIOTT CYRIL.....Elizabeth, N. J.  
 BUTLER, EUSTACE CAMERON.....Bahamas, W. I.  
 New York College of Pharmacy, Ph.G., 1901.

CASAMAJOR, LOUIS.....(Bklyn) New York City  
 Columbia University, A.B., 1903.

CASPER, JOSEPH.....Salem, N. J.  
 Princeton University, B.S., 1902.

COHEN, EMANUEL.....(Mhntn) New York City  
 CONLEY, DUDLEY STEELE.....Columbia, Mo.  
 Missouri State University, B.L., 1899.

CORSCADEN, JAMES ALBERT.....Middletown, Conn.  
 Wesleyan University, Ph.B., 1902.

DAY, HOMER LELAND.....San Francisco, Cal.  
 Leland Stanford, Jr., University, A.B., 1901.

DECKER, CHARLES THURSTON.....Westfield, N. J.  
 DENNO, WILLARD JOSEPH.....Castleton, Vt.  
 Yale University, A.B., 1903.

DETWILLER, ALBERT KNECHT.....Easton, Pa.  
 Lafayette College, Ph.B., 1901.

DRAPER, GEORGE.....(Mhntn) New York City  
 Harvard University, A.B., 1903.

DRENNEN, WESTLEY EARLE.....Birmingham, Ala.  
 University of Alabama, A.B., 1902.

DU BOIS, EUGENE FLOYD.....West New Brighton, S. I.  
 Harvard University, A.B., 1903.

EDGAR, JOSEPH ALEXANDER.....Jersey City, N. J.  
 EHRLHARDT, CHARLES FREDERICK.....(Mhntn) New York City  
 EISENBERG, ABRAHAM DAVID.....(Mhntn) New York City  
 ELMENDORF, WILLIAM TEN-EYCK.....(Mhntn) New York City  
 Rutgers College, A.B., 1902.

- ENGELSON, JOSEPH ENGEL.....(Br) New York City  
 FELBERBAUM, DAVID.....(Mhtn) New York City  
 FINE, ABRAHAM.....(Bklyn) New York City  
 FINK, MORRIS.....(Mhtn) New York City  
 FISCHER, HENRY ARCHBOLD.....(Mhtn) New York City  
 FISHER, CHARLES FRANK.....(Bklyn) New York City  
 FLEMMING, EDWARD ALBERT.....(Bklyn) New York City  
 FRIEDER, WILLIAM.....(Mhtn) New York City  
 FRIEDMAN, SIMON SIDNEY.....(Mhtn) New York City  
 College of the City of New York, A.B., 1902.
- GILLEN, WILLIAM ALOYSIUS, JR.....Jersey City, N. J.  
 St. Francis Xavier College, A.B., 1902.
- GOLDBERGER, LEWIS ARTHUR.....(Mhtn) New York City  
 College of the City of New York, A.B., 1902.
- GOLDMAN, ALEXANDER.....(Mhtn) New York City  
 New York College of Pharmacy, Ph.G., 1897.
- GORDON, DONALD, JR.....(Bklyn) New York City  
 GOTTESMAN, ABRAHAM.....(Mhtn) New York City  
 GRAHAM, JOHN ELIOTT.....Little Falls, N. Y.  
 GREENSPAN, SAMUEL.....(Mhtn) New York City  
 GROESCHEL, LESSER BERNHARDT.....Chester, S. C.  
 GROSSMAN, LOUIS JOSEPH.....(Bklyn) New York City  
 HARRINGTON, JAMES TAYLOR.....Short Hills, N. J.  
 Harvard University, A.B., 1899.
- HARRIS, HARRY BLATT.....Orange, N. J.  
 HART, LEONARD.....Jackson, Miss.  
 Millsaps College, B.S., 1902.
- HENRY, MORRIS WALGROVE.....(Bklyn) New York City  
 HENSCHEL, LOUIS KAUFMAN.....(Mhtn) New York City  
 HOLZMAN, ARTHUR CHESTER.....(Bklyn) New York City  
 HOWELL, ERNEST TITUS DEAN.....(Mhtn) New York City  
 HOWLAND, DE RUYTER.....New Rochelle, N. Y.  
 HUYCK, RALPH PRYNE.....Herkimer, N. Y.  
 HYMAN, DAVID.....(Mhtn) New York City  
 ITTELSON, MAX.....(Mhtn) New York City  
 JANÉ, ALBERT CHRISTOBAL.....Guantanamo, Cuba  
 Provincial Institute, Santiago, A.B., 1891.
- JOELSON, MORRIS SAMUEL.....Paterson, N. J.  
 JOHNSON, FREDERICK A.....(Mhtn) New York City  
 KAUFMAN, IGNATZ.....(Br) New York City  
 KIBBE, EDWIN JACKSON.....Batavia, N. Y.  
 KIMBALL, PAUL WELLINGTON.....(Mhtn) New York City  
 Amherst College, A.B., 1902.
- KINGSLEY, ROLFE.....(Mhtn) New York City  
 Yale University, Ph.B., 1902.
- KOBLER, EARL WILLIS.....Upper Montclair, N. J.  
 LANDESMAN, ISIDOR LOUIS.....(Mhtn) New York City  
 LANDSMAN, ISIDORE JOSEPH.....(Mhtn) New York City  
 College of the City of New York, A.B., 1901.
- LASHER, FRANK HERMANCE.....Poughkeepsie, N. Y.  
 LAWLOR, MICHAEL JOSEPH.....Waterbury, Conn.  
 Holy Cross College, A.B., 1902.
- LEBOWITZ, EMANUEL FREDERICK.....(Mhtn) New York City  
 College of the City of New York, B.S., 1902.

- LEDERER, MAX.....(Bklyn) New York City  
 LEE, WILLIAM RUMFITT, JR.....Troy, N. Y.  
 LEVINE, BENJAMIN MEYER.....(Mhtn) New York City  
 LEWIS, HOWARD TAYLOR.....Plainfield, N. J.  
     Alfred University, B.S., 1902.  
 LIEB, CHARLES CHRISTIAN.....(Mhtn) New York City  
     Columbia University, A.B., 1902.  
 LINDEMAN, HOWARD EDWARD.....(Mhtn) New York City  
 LOVE, TRACY ROBINSON.....Denver, Colo.  
     Colorado College, Ph.B., 1902.  
 LYON, EDWARD CRANE.....Caldwell, N. J.  
     Princeton University, A.B., 1902.  
 MCCORMACK, WILLIAM GUILDING, JR.....(Mhtn) New York City  
 MCKALLAGAT, PETER LEO.....Lawrence, Mass.  
 McNULTY, EDWARD TINNEY.....(Bklyn) New York City  
 MACRAE, RICHARD MONCURE.....(Mhtn) New York City  
 MERRIMAN, MERRIT HEMINWAY.....(Mhtn) New York City  
     Yale University, A.B., 1901.  
 MININGHAM, WILLIAM DARCY.....Jersey City, N. J.  
 MOCKRIDGE, OSCAR ABRAHAM.....Newark, N. J.  
     Pennsylvania Military College, B.S., 1901.  
 MONTY, ADELBERT HOWARD.....Holyoke, Mass.  
 MORETSKY, HENRY MOSES.....(Mhtn) New York City  
 MORTON, CHARLES EDWARD.....Webster, Mass.  
 OBERWAGER, JOHN.....(Mhtn) New York City  
     College of the City of New York, A.B., 1901.  
 OPPENHEIMER, FREDERIC GOLDING.....San Antonio, Texas  
     Columbia University, A.B., 1902.  
 OSNATO, MICHAEL.....(Mhtn) New York City  
 PEASE, MARSHALL CARLETON, JR.....(Mhtn) New York City  
     Beloit College, B.S., 1902.  
 PHELPS, GOUVERNEUR MORRIS.....New Rochelle, N. Y.  
     Harvard University, B.S., 1902.  
 PHILLIPS, CHARLES.....(Mhtn) New York City  
 PORTER, JOSEPH YATES, JR.....Key West, Fla.  
 PRATT, CHARLES HOWARD.....Passaic, N. J.  
 RAABE, ALFRED.....(Br) New York City  
 RAY, EDGAR THOMAS.....(Mhtn) New York City  
     College of the City of New York, A.B., 1902.  
 REUBEN, MARK.....(Mhtn) New York City  
     College of the City of New York, A.B., 1902.  
 RICE, FREDERICK WALTER.....Bangor, Me.  
     Holy Cross College, A.B., 1902.  
 ROSENTHAL, JOSEPH.....(Mhtn) New York City  
 ROSS, CARL ARTMAN.....Dansville, N. Y.  
 ROSSANO, AUGUSTUS THOMAS.....(Mhtn) New York City  
 RYTTEMBERG, CHARLES.....Sumter, S. C.  
     University of South Carolina, A.B., 1902.  
 SAMMIS, JESSE FLEET.....(Mhtn) New York City  
     Princeton University, A.B., 1902.  
 SCHULMAN, ROBERT.....(Bklyn) New York City  
     Columbia University, A.B., 1903.  
 SCHUMER, HENRY.....(Mhtn) New York City  
 SCHWARTZ, PETER.....(Mhtn) New York City



- SCRUTON, WILLIAM ALFRED.....(Mhtn) New York City  
New York College of Pharmacy, Phar.D., 1898.
- SEARS, HENRY CLARK.....Binghamton, N. Y.
- SELVAGE, CHARLES EDWIN.....Newark, N. J.
- SEVERSON, IRWIN WINT.....Pittston, Pa.
- SHAINÉ, MARKS SOLOMON.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- SHEA, WILLIAM ALBERT.....Ashland, Wis.  
Notre Dame University, Indiana, Litt.B., 1902.
- SHERWOOD, WILLIAM DAVIES.....(Br) New York City
- SILVERMAN, SAMUEL TILDEN.....(Mhtn) New York City
- SINGER, DAVID A.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- SIROVICH, WILLIAM IRVING.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- SLOCUM, ARTHUR LANGFORD.....(Mhtn) New York City  
Brown University, A.B., 1901.
- SMITH, SCOTT LORD.....South Wilton, Conn.  
Yale University, A.B., 1902.
- SMOLEN, ABRAHAM LOUIS.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- SOBEL, SAMUEL PAUL.....(Mhtn) New York City  
State Board Pharmacy, Phar.L., 1899.
- SOPER, ARTHUR ELSWORTH.....Northport, L. I.
- SPICKERS, WILLIAM, JR.....Paterson, N. J.
- SPIEGELBERG, SIDNEY LEHMAN.....(Mhtn) New York City  
Columbia University, A.B., 1902.
- STEEER, ARTHUR.....Chepachet, R. I.  
Brown University, A.B., 1902.
- STEINHARDT, IRVING DAVID.....(Mhtn) New York City
- STELLA, GIOVANNI.....Naples, Italy
- STEWART, EDGAR EGINTON.....(Mhtn) New York City
- STEWART, SAMUEL.....Paterson, N. J.
- STRAIN, WILLIAM PETER.....New Rochelle, N. Y.
- STRATMANN, CHARLES FRANCIS.....(Bklyn) New York City
- SULLIVAN, MARK DUNKLIN.....Pelzer, S. C.  
Maryland College of Pharmacy, Ph.G., 1898.
- SUMNER, ABRAHAM JACOB.....(Mhtn) New York City
- TE GUSSINKLO, WILLIAM.....(Mhtn) New York City
- THUNIG, LOUIS ALBERT.....(Bklyn) New York City
- TITSWORTH, SYDNEY ROSS.....Plainfield, N. J.  
Alfred University, B.S., 1901.
- TRUESDELL, EDWARD DELAVAN.....(Bklyn) New York City  
Princeton University, A.B., 1902.
- UNGER, HENRY HERMAN.....(Mhtn) New York City  
College of the City of New York, A.B., 1901.
- VAIL, CHARLES EDWARD.....Newark, N. J.  
Princeton University, A.B., 1902.
- VAN VERBEEK SCHOTT, GERARD JOHAN, JR.....Passaic, N. J.
- VERMILYE, ROBERT MONTGOMERY.....(Mhtn) New York City  
Princeton University, A.B., 1902.
- VOORHÉES, HOWARD CROSBY.....New Brunswick, N. J.  
Princeton University, A.B., 1902.

- VREELAND, RALPH DOREMUS.....Paterson, N. J.  
 WALLING, LENNOX GRESHAM.....Harrisville, R. I.  
 Brown University, A.B., 1902.
- WATKINS, EDWIN DIAL.....Chattanooga, Tenn.  
 University of Virginia, B.S., 1902.
- WEIZENHOFFER, ADOLPH.....(Mhntn) New York City  
 College of the City of New York, B.S., 1898.
- WESTOVER, ROBERT RAYMOND.....Oxford, N. Y.
- WOOD, WILSON GUYON.....(Mhntn) New York City  
 College of the City of New York, B.S., 1899.
- WOOLDRIDGE, JAMES CLEMENTS.....Columbus, Ga.  
 Emory College, Ga., A.B., 1898.
- WRIGHT, FREDERICK STARR.....(Mhntn) New York City  
 Lafayette College, A.B., 1902.
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## SECOND YEAR—CLASS OF 1907

- ABRAMS, WILLIAM LAMBERSON.....(Mhntn) New York City
- ABRONS, HARRY.....(Mhntn) New York City
- ALLEN, THEODORE HENRY.....Montclair, N. J.  
 Columbia University, A.B., 1903.
- ANDERSON, CHARLES ALBERT.....Dorchester, Mass.
- AXELRAD, JACOB.....(Mhntn) New York City  
 College of the City of New York, B.S., 1902.
- BAECHLER, JULES.....(Mhntn) New York City  
 French American College, A.B., 1903.
- BASS, MURRAY HAROLD.....(Mhntn) New York City  
 Columbia University, A.B., 1903.
- BOICE, HARRY WALDEMAR.....(Bklyn) New York City
- BIGGS, FREDERICK SUMNER.....Brandon, Vt.  
 University of Vermont, A.B., 1904.
- BROWN, SANGER.....Bloomfield, Ont., Canada
- CALLAGHAN, WILLIAM AUGUSTINE.....Ogdensburg, N. Y.
- CANTO, YSIDRO HERRERA.....Merida, Yucatan, Mexico  
 Boston University, B.S., 1900.
- CARTMELL, THEODORE MITHOFF.....Lancaster, O.  
 Kenyon College, A.B., 1903.
- CLASS, FRANKLIN MORRIS.....(Mhntn) New York City  
 Harvard University, A.B., 1903.
- COHN, ROYAL MORRIS.....Newark, N. J.
- CROHN, BURRILL BERNHARD.....(Mhntn) New York City  
 College of the City of New York, A.B., 1902.
- CROSS, JAMES BAILEY.....Fultonville, N. Y.
- DECKER, HARRY RYERSON.....Montclair, N. J.  
 Princeton University, A.B., 1903.
- DEDERER, ISAAC CARLETON.....(Mhntn) New York City  
 Cornell University, A.B., 1904.
- DĒRBY, RICHARD.....(Mhntn) New York City  
 Harvard University, A.B., 1903.
- DORSEY, JOHN JOSEPH.....Ogdensburg, N. Y.
- EGGERS, CARL FREDERICK AUGUST.....(Bklyn) New York City
- ERLER, EUGENE WILLIAM.....Newark, N. J.  
 Rutgers College, A.B., 1903.

- ESPINOSA, ANTONIO.....Merida, Yucatan, Mexico  
 FABER, GUSTAVUS WILLIAM.....Plainfield, N. J.  
 Princeton University, A.B., 1903.
- FAIRCHILD, RALPH PLUMB.....(Mhtn) New York City  
 FOOT, NATHAN CHANDLER.....Rye, N. Y.  
 Harvard University, A.B., 1903.
- FORSTOT, SAMUEL.....(Mhtn) New York City  
 College of the City of New York, A.B., 1903.
- FORT, JAY IRVING.....Newark, N. J.  
 Columbia University, A.B., 1903.
- FOUCAR, FREDERIC HULTMAN.....(Mhtn) New York City  
 Columbia University, A.B., 1904.
- FULKERSON, LYNN LYLE.....Ingleside, N. Y.  
 Syracuse University, A.B., 1903.
- FUNK, MERTON LAYTON.....(R) New York City  
 Columbia University, A.B., 1904.
- FURST, SIDNEY.....(Br) New York City  
 College of the City of New York, B.S., 1902.
- GIL, GIL JUVENAL.....(Mhtn) New York City  
 University of Antioquia, A.B., 1901.
- GISSEL, HENRY WILLIAM, JR.....(Bklyn) New York City  
 GOLDBERG, ABRAHAM.....Rockaway Beach, N. Y.  
 GRANBERRY, DENIS WEBB.....East Orange, N. J.  
 Harvard University, A.B., 1899.
- GRUDBERG, SIMON CHARLES.....(Mhtn) New York City  
 College of the City of New York, A.B., 1903.
- GUILE, HUBERT VIVIAN.....(Mhtn) New York City  
 Princeton University, B.S., 1903.
- HARPER, PAUL TOMPKINS.....Cohoes, N. Y.  
 Hamilton College, Ph.B., 1903.
- HEDEMANN, FERDINAND FREDERICK.....Honolulu, H. I.  
 HEIMAN, JACOB.....(Mhtn) New York City  
 College of the City of New York, A.B., 1903.
- HOFF, HOWARD CROSBY.....(Mhtn) New York City  
 HOGUET, JOSEPH PIERRE.....(Mhtn) New York City  
 Harvard University, A.B., 1904.
- HOLT, ROLAND GORDON.....Hudson, Mass.  
 JAFFE, HERMAN MEYER.....Jersey City, N. J.  
 JAMES, HENRY.....Catonsville, Md.  
 Yale University, A.B., 1903.
- JANEWAY, WILLIAM RICHARD, 2d.....(R) New York City  
 Princeton University, A.B., 1903.
- KEATING, THOMAS SEBASTIAN.....(Bklyn) New York City  
 KEENEY, CADWELL BENSON.....Elizabeth, N. J.  
 Princeton University, A.B., 1903.
- KEHRLEIN, OLIVER DU FRÉSNE.....San Francisco, Cal.  
 KELLER, MORRIS.....(Mhtn) New York City  
 College of the City of New York, A.B., 1903.
- KNAPP, RICHARD EDWARD.....Hackensack, N. J.  
 KRAMER, HENRY FREDERICK.....(Bklyn) New York City  
 KRANS, EDWARD SHEAFE.....(Mhtn) New York City  
 Bishop's College, Quebec, A.B., 1902.

- LAMB, ALBERT RICHARD.....Waterbury, Conn.  
Yale University, A.B., 1903.
- LARKIN, ARTHUR GABRIEL.....(Mhtn) New York City  
St. Francis Xavier College, A.B., 1902
- LEVENE, SAMUEL ARCHIBALD.....(Mhtn) New York City  
LICHTENSTEIN, GEORGE.....(Mhtn) New York City  
College of the City of New York, A.B., 1899.
- LUCAS, DANIEL RALPH.....Lafayette, Ind.  
Purdue University, Ph.G., 1901; B.S., 1903.
- MCBAINE, RICHARD HIRAM.....Columbia, Mo.  
University of Missouri, A.B., 1903.
- MCCREADY, ROBERT LYNNESS, JR.....(Mhtn) New York City  
MCNAMARA, EDWARD JOSEPH.....Bath, N. Y.
- MANDELBAUM, HERBERT DAVID.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- MILLER, GEORGE EDMUND.....Utica, N. Y.  
Hamilton College, A.B., 1903.
- MILLER, LOUIS.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- MILLS, WILLIAM MERRILL.....Topeka, Kan.  
Washburn College, A.B., 1903.
- MIXSELL, RAYMOND BOILEAU.....Easton, Pa.  
Princeton University, A.B., 1903.
- MOECKEL, CARL RICHARD.....Lawrence, Mass.
- MORE, DAVID HUBBELL.....Bangor, Pa.  
Lafayette College, Ph.B., 1903.
- MUNKER, MAURICE JONES.....(Mhtn) New York City  
Columbia University, A.B., 1904.
- MURN, CHARLES JOSEPH.....Paterson, N. J.  
Fordham College, A.B., 1903.
- NORTON, CHARLES WORTH.....San Francisco, Cal.
- NORTON, HOWARD LEROY.....New Castle, Pa.
- OPPENHEIMER, EDGAR DAVIDSON.....(Mhtn) New York City  
Columbia University, A.B., 1904.
- OWEN, MAYNARD SMITH.....Delaware, O.  
Ohio Wesleyan University, A.B., 1903.
- PARTRIDGE, GEORGE WILLIAM.....(Mhtn) New York City  
University of Rochester, A.B., 1903.
- PHILLIPS, WALTER.....Alexandria, Pa.  
Princeton University, A.B., 1902; A.M., 1903.
- POWERS, JOHN BREWER.....Wake Forest, N. C.  
Wake Forest College, A.M., 1903.
- RATTNER, CHARLES GEORGE.....(Mhtn) New York City
- RAWLS, PERCY SCOTT.....Indianapolis, Ind.  
University of Chicago, B.S., 1903.
- RUHL, HENRY LOUIS.....(Br) New York City  
St. John's College, A.B., 1903.
- SCHILLER, ABRAHAM NOAH.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- SCHWARTZ, LOUIS HERBERT.....(Mhtn) New York City  
College of the City of New York, A.B., 1901.
- SHANK, EVERETT W.....Dayton, O.  
Oberlin College, A. B., 1902.



- SLAUGHTER, WILLIAM HARRISON.....Campbell Hall, N. Y.  
Hamilton College, Ph.B., 1902.
- SMITH, WALTER MONTY.....Glens Falls, N. Y.
- SPELMAN, HARRY TUCKER.....(Bklyn) New York City
- STILLMAN, ALFRED, 2d.....(Mhntn) New York City  
Harvard University, A.B., 1903.
- STILLMAN, RALPH GRIFFITHS.....Rahwa, N. J.  
Yale University, A.B., 1903.
- SULLIVAN, RAYMOND PETER AUGUSTINE.....(Bklyn) New York City  
Manhattan College, A.B., 1903.
- SWANN, ARTHUR WARTON.....Stockbridge, Mass.  
Harvard University, A.B., 1903.
- TAYLOR, CARLE DUDLEY.....Cottonwood, Cal.
- TAYLOR, CHARLES GOODMAN.....(Mhntn) New York City
- TERRIBERRY, WILLIAM KENNEY.....Somerville, N. J.  
Yale University, A.B., 1903.
- TROTTER, JAMES PATTEN.....Yonkers, N. Y.  
Columbia University, A.B., 1904.
- TWEDDELL, FRANCIS.....Great Neck, L. I.
- UTLEY, FRED BROWN.....Gloversville, N. Y.  
Yale University, A.B., 1903.
- WALL, JAMES PERCY.....Jackson, Miss.  
Millsaps College, A.B., 1899.
- WALLENSTEIN, CHARLES ABRAHAM.....(Bklyn) New York City
- WALTHER, JOHN WOODWARD.....(Q) New York City
- WEINGARTEN, FREDERICK SIMON.....(Br) New York City  
University of Chicago, B.S., 1904.
- WILENSKY, ABRAHAM OWEN.....(Mhntn) New York City  
College of the City of New York, A.B., 1903.
- WITT, ABRAHAM WOLFF.....(Mhntn) New York City  
College of the City of New York, A.B., 1901.
- WOODS, EDWARD BIGELOW.....Pittsburgh, Pa.  
Princeton University, B.S., 1903.
- WOODS, THOMAS HENRY, Jr.....(Bklyn) New York City  
St. Francis College, Brooklyn, A.B., 1901.

Second Year—Class of 1907..... 106

## FIRST YEAR—CLASS OF 1908

- BACHRACH, CLARENCE GROVER.....(Bklyn) New York City  
Harvard University, A.B., 1905.
- BAEGEL, MAX.....(Mhntn) New York City
- BAEHR, GEORGE.....(Mhntn) New York City
- BANNON, WILLIAM JOSEPH.....Westerly, R. I.
- BARBER, ROBERT F.....(Bklyn) New York City  
Harvard University, A.B., 1904.
- BARNETT, NATHANIEL.....(Mhntn) New York City
- BATES, EDWIN CASSIUS.....St. Stephen, N. B.
- BLAKELY, STUART BANYAR.....Otsego, N. Y.  
Hamilton College, A.B., 1903.
- BLOOMGARDEN, AARON SAMUEL.....(Mhntn) New York City
- BOWERS, WESLEY CREVELING.....Washington, N. J.  
Princeton University, A.B., 1904.

- BRENNER, EDWARD CHRISTOPHER.....(Mhtn) New York City  
College of the City of New York, A.B., 1904.
- BROWNELL, EVERETT GARNSEY.....Boston, Mass.  
Union University, A.B., 1900.
- BUDINGTON, WALTER IVES.....Port Kent, N. Y.
- BURKE, RUSH PEARSON.....Montgomery, Ala.  
Alabama Polytechnic Institute, B.Sc., 1903; M.Sc., 1904.
- BURNETT, THOMAS WARD.....Summit, N. Y.
- CARLUCCI, GASTON ARTHUR.....(Mhtn) New York City
- CASSEBEER, ALFRED FREDERICK.....Rochester, N. Y.
- CASSINI, HERMAN.....Orange, N. J.
- COMMORATO, JOHN RALPH.....(Mhtn) New York City
- CUNNION, ARTHUR JEROME.....(Mhtn) New York City
- DUDLEY, LIONELL ELWOOD.....Mapleton, Me.  
Colby College, A.B., 1903.
- DUFFIELD, STUART KENNEDY.....(Mhtn) New York City
- EICHHORN, LOUIS MAXIME.....(Mhtn) New York City  
College of the City of New York, B.S., 1902.
- ENFER, EMILE PAUL.....(Mhtn) New York City
- FARRELL, JOHN RAYMOND.....(Mhtn) New York City
- FELD, HYMAN.....(Mhtn) New York City
- FELDMAN, JOEL WILLIAM.....(Mhtn) New York City
- FERNANDEZ, FRANCISCO MARIA Y HERNANDEZ.....Bolondron, Matanzas, Cuba.  
University of Havana, Cuba, B.S., 1901.
- FINDEISEN, WILLIAM ERNST.....(Bklyn) New York City
- FULDA, HARRY CHRISTIAN.....(Bklyn) New York City
- GEIST, SAMUEL HERBERT.....(Mhtn) New York City  
College of the City of New York, A.B., 1904.
- GELB, LOUIS.....(Mhtn) New York City
- GEORGEN, CLARENCE BELDEN.....Yonkers, N. Y.
- GOODBODY, WILLIAM URWICK.....Haledon, N. J.  
Williams College, A.B., 1904.
- GRAVES, ARTHUR COON.....Adams Centre, N. Y.
- GRAY, JOHN HENRY.....Port Murray, N. J.
- GREENBERG, LOUIS.....(Mhtn) New York City  
College of the City of New York, B.S., 1904.
- HANGARTER, ANDREW HENRY.....(Bklyn) New York City  
Canisius College, Buffalo, A.B., 1904.
- HARRINGTON, DANIEL JOSEPH.....(Mhtn) New York City
- HAYWARD, VINCENT SUMNER.....(Br) New York City
- HEADY, MERRITT BROOKS.....Winsted, Conn.
- HELBIG, WILLIAM HENRY.....(Mhtn) New York City
- HERBERMANN, CHARLES GEORGE, Jr.....(Mhtn) New York City  
St. Francis Xavier College, A.B., 1904.
- HUMPHREYS, GEORGE HOPPIN.....(Mhtn) New York City  
Yale University, Ph.B., 1898.
- HUNT, J. JAY.....Bayonne, N. J.
- HURWITZ, FRANK.....(Bklyn) New York City  
College of the City of New York, A.B., 1904.
- JOHNSON, TRAVIS JAMES AUGUSTUS.....(Mhtn) New York City  
College of the City of New York, A.B., 1904.
- KLEINBERG, SAMUEL.....(Mhtn) New York City
- KOLSKY, IRVING.....Nashville, Tenn.  
Vanderbilt University, B.S., 1904.

- KRAMER, ISAAC.....(Mhtn) New York City  
College of the City of New York, B.S., 1899.
- LEBER, OTTO HERMAN.....Hoboken, N. J.  
Columbia University, A.B., 1904.
- LEVY, ISADORE JESSE.....Syracuse, N. Y.  
Syracuse University, Ph.B., 1904.
- LITTENBERG, SAMUEL JOSHUA.....(Mhtn) New York City  
College of the City of New York, A.B., 1904.
- LYON, DARWIN OLIVER.....Mt. Vernon, N. Y.
- McCARTHY, CHARLES ALOYSIUS.....Lawrence, Mass.
- McCLUSKEY, RICHARD JOHN.....Lowell, Mass.
- McCoy, WILLIAM MILTON.....East Orange, N. J.  
Princeton University, A.B., 1904.
- McLEAN, CORNELIUS STAFFORD.....Newburgh, N. Y.
- MICHAILOVSKY, BENJAMIN.....(Mhtn) New York City  
College of the City of New York, B.S., 1899.
- MONROE, OTHO LEE.....Galion, Ohio  
Ohio Wesleyan University, B.S., 1904.
- MURRAY, RICHARD BUTLER.....Kensington, Conn.  
Manhattan College, A.B., 1904.
- NEWMAN, BENJAMIN.....(Mhtn) New York City
- NILSEN, ARTHUR.....(Mhtn) New York City  
Yale University, A.B., 1904.
- PERSHING, CYRUS LONG.....Pottsville, Pa.  
Princeton University, B.S., 1889.
- PORTER, CHARLES HUNT, JR.....Newport, R. I.
- RAINSFORD, LAURENCE.....(Mhtn) New York City  
Harvard University, A.B., 1904.
- REED, DUDLEY BILLINGS.....Twinsburg, Ohio  
Oberlin College, A.B., 1903.
- RICHARDSON, RUSSELL.....(Bklyn) New York City  
Princeton University, A.B., 1904.
- ROBERTS, WILLIAM HAWLEY.....Attleboro, Mass.
- ROBINSON, THEODORE GARDNER.....(Mhtn) New York City  
Columbia University, A.B., 1904.
- ROCKEY, PAUL.....Portland, Oregon
- ROMAN, JOHN JULIUS CÆSAR.....Jindpepe, Nicaragua, C. A.  
Institute of West Nicaragua, B.S., 1904.
- ROOME, CLARENCE TYLEY.....Berwyn, Ill.  
Oberlin College, A.B., 1903.
- RUTLEDGE, WILLIAM CLOUD.....Duncan Falls, O.  
Ohio Wesleyan University, A.B., 1903.
- SAYLE, HARVEY RODOLPH.....(Mhtn) New York City  
New York University, B.S., 1903.
- SCHAEFFER, SAMUEL.....New London, Conn.
- SIBBEL, ARMIN JOSEPH.....(Br) New York City  
St. John's College, Fordham, A.B., 1904.
- SILLECK, WALTER MANDEVILLE.....(Mhtn) New York City  
New York University, B.S., 1904.
- SLOANE, FRANCIS JOHNSTON.....(Mhtn) New York City  
Princeton University, A.B., 1904.
- SOPER, WILLARD BURR.....Bloomington, Ill.  
Yale University, A.B., 1904.

STRONG, ARCHIBALD MCINTYRE.....	(Mhtn) New York City Princeton University, A.B., 1904.
STURTEVANT, MILLS GOVE.....	Manchester, N. H. Dartmouth College, A.B., 1904.
TARBELL, FRANK WASHINGTON.....	Smyrna Mills, Me. Colby College, A.B., 1904.
TEN BROOK, GLEN JOHN.....	Bayonne, N. J.
TOUART, MAXIMIN DE MOUY.....	Mobile, Ala. Spring Hill College, A.B., 1903.
TRON, STANLEY EMANUELE.....	Turin, Italy
TURNER, PAUL AKERS.....	Portland, Me. Amherst College, A.B., 1904.
VAIL, LEROY BENJAMIN.....	(Bklyn) New York City Dartmouth College, B.S., 1904.
WARING, ANTONIO JOHNSTON.....	Savannah, Ga. Yale University, A.B., 1903.
WESSLER, HARRY.....	(Mhtn) New York City College of the City of New York, A.B., 1902.
WHIPPLE, ALLEN OLDFATHER.....	Duluth, Minn. Princeton University, B.S., 1904.
WHITNEY, GEORGE CROSIER.....	Rochester, N. Y. University of Rochester, A.B., 1904.
WILLIAMS, ROBERT ARTHUR.....	Portland, Oregon
YERINGTON, HENRY HERBERT.....	Carson, Nev.
ZELAYA, ANIBAL.....	Managua, Nicaragua, C. A.
First Year—Class of 1908.....	95

## SPECIAL STUDENTS

*Irregular Students*

BAUER, AUGUST FREDERICK.....	(Bklyn) New York City
CORDES, JOHN HERMAN.....	(Mhtn) New York City
DELPHEY, EDEN VINSON.....	(Mhtn) New York City Columbia University, M.D., 1889.
DICKSON, JOHN RHODES.....	(Mhtn) New York City
FEINSTEIN, JACOB AHRON.....	(Mhtn) New York City
FEUST, PHILIP.....	(Mhtn) New York City
HAIGH, HERBERT.....	(Mhtn) New York City
LISSEY, BERNARD.....	(Mhtn) New York City
MAYER, JOSEPH.....	(Mhtn) New York City
SPECHT, RUDOLPH WILLIAM, Jr.....	Orange, N. J.
VAIL, WILLIAM GRANT.....	(Bklyn) New York City
WESTER, ERNEST.....	Newark, N. J.
Special Students.....	12

## SUMMARY

Fourth Year—Class of 1905.....	190
Third Year—Class of 1906.....	156
Second Year—Class of 1907.....	106
First Year—Class of 1908.....	95
Special Students.....	12
Seniors from Columbia College.....	3
Total.....	562



## THE SCHOOL OF MINES

## THE SCHOOL OF CHEMISTRY

## THE SCHOOLS OF ENGINEERING

Under the University organization of Divisions these include:

The Division of Chemistry

The Division of Engineering, comprising the Departments of Civil Engineering

Electrical Engineering and

Mechanical Engineering

The Division of Mining and Metallurgy

In addition to the above, students under this Faculty attend courses in the Division of Mathematical and Physical Science, including Astronomy, Mathematics, Mechanics, Physics, and in the Division of Geology, Geography, and Mineralogy.

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### Officers of the Faculty

FREDERICK R. HUTTON, E.M., Ph.D., Sc.D...*Dean (term expires 1905)*  
*and ex-officio Member of the University Council*

GEORGE F. SEVER.....*Secretary*

HENRY S. MUNROE, E.M., Ph.D., Sc.D.....*Elected Delegate to the*  
*University Council*

### Standing Committees

COMMITTEE ON ADMINISTRATION: Professors Hutton (Chairman), Van Amringe, Burr, Sever, Bogert.

COMMITTEE ON ADMISSIONS: Professors Miller (Chairman), Hallock, Keyser, Peele, Lovell.

### The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*

J. HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D.....*Professor of*  
*Mathematics*

CHARLES F. CHANDLER, Ph.D., M.D., LL.D., Sc.D...*Mitchill Professor*  
*of Chemistry*

HENRY S. MUNROE, E.M., Ph.D., Sc.D.....*Professor of Mining*

FREDERICK R. HUTTON, E.M., Ph.D., Sc.D...*Professor of Mechanical*  
*Engineering and Dean of the Faculty*

JOHN KROM REES, E.M., Ph.D....	<i>Rutherford Professor of Astronomy</i>
ALFRED J. MOSES, E.M., Ph.D.....	<i>Professor of Mineralogy</i>
JAMES F. KEMP, A.B., E.M.....	<i>Professor of Geology</i>
ROBERT PEELE, E.M.....	<i>Professor of Mining</i>
WILLIAM HALLOCK, Ph.D.....	<i>Professor of Physics</i>
FRANCIS B. CROCKER, E.M., Ph.D..	<i>Professor of Electrical Engineering</i>
MICHAEL I. PUPIN, Ph.D., Sc.D.....	<i>Professor of Electro-Mechanics</i>
WILLIAM H. BURR, C.E.....	<i>Professor of Civil Engineering</i>
ROBERT S. WOODWARD, C.E., Ph.D., LL.D....	<i>Professor of Mechanics and Mathematical Physics</i>
THOMAS SCOTT FISKE, Ph.D.....	<i>Professor of Mathematics</i>
HAROLD JACOBY, Ph.D.....	<i>Professor of Astronomy</i>
CHARLES R. RICHARDS, B.S....	<i>Professor of Manual Training, Teachers College</i>
HENRY M. HOWE, A.M., S.B.....	<i>Professor of Metallurgy</i>
CHARLES E. PELLEW, E.M.....	<i>Adjunct Professor of Chemistry</i>
EARL B. LOVELL, C.E.....	<i>Adjunct Professor of Civil Engineering</i>
GEORGE FRANCIS SEVER...	<i>Adjunct Professor of Electrical Engineering</i>
JAMES MACLAY, C.E., Ph.D.....	<i>Adjunct Professor of Mathematics</i>
EDMUND HOWD MILLER, Ph.D.....	<i>Professor of Analytical Chemistry</i>
MARSTON TAYLOR BOGERT, A.B., Ph.B.....	<i>Professor of Organic Chemistry</i>
J. LIVINGSTON RUTGERS MORGAN, Ph.D..	<i>Adjunct Professor of Physical Chemistry</i>
AMADEUS W. GRABAU, S.D.....	<i>Adjunct Professor of Palæontology</i>
RALPH EDWARD MAYER, C.E.....	<i>Adjunct Professor of Mechanical Drawing</i>
IRA H. WOOLSON, E.M...	<i>Adjunct Professor of Mechanical Engineering</i>
CASSIUS JACKSON KEYSER, Ph.D...	<i>Adrain Professor of Mathematics</i>
HERSCHEL C. PARKER, Ph.B.....	<i>Adjunct Professor of Physics</i>
GEORGE L. MEYLAN, A.M., M.D.....	<i>Adjunct Professor of Physical Education</i>
AMASA TROWBRIDGE, Ph.B.....	<i>Adjunct Professor of Mechanical Engineering</i>
LEA McILVAINE LUQUER, Ph.D.....	<i>Adjunct Professor of Mineralogy</i>
BRADLEY STOUGHTON, B.S.....	<i>Adjunct Professor of Metallurgy</i>

### PROFESSIONAL COURSES

The Faculty of Applied Science has charge of the following schools:

1. The SCHOOL OF MINES, with four-year courses leading to the degrees of Engineer of Mines and Metallurgical Engineer.
2. The SCHOOL OF CHEMISTRY, with four-year courses in Analytical, Industrial, and Organic Chemistry, leading to the degree of Bachelor of Science.
3. The SCHOOLS OF ENGINEERING, with four-year courses in Civil Engineering, Sanitary Engineering, Electrical Engineering, and Mechanical Engineering, the first two leading to the degree of Civil

Engineer, and the others to the degree of Electrical Engineer and Mechanical Engineer, respectively.

Full particulars regarding each of these courses of study are contained in special circulars, which will be forwarded on application to the Secretary of the University.

These courses are intended to meet the requirements of the several professions indicated. Many of the courses permit a certain amount of specialization, particularly in the fourth year. The courses in the School of Mines are so arranged that the student can emphasize the engineering, the metallurgical, or the geological side of his profession, while one of the alternative courses in Mechanical Engineering is designed for those who wish to make a specialty of mine plant and machinery. A course in Sanitary Engineering (leading to the degree of Civil Engineer) is provided for those who wish to prepare themselves for this important branch of civil engineering. The Mechanical Engineering course offers three alternatives in the fourth year, emphasizing, respectively, the dynamic, the marine, and naval architectures, and the locomotive sides of the mechanical engineer's work. Three courses are offered in Chemistry: for analytical, industrial, and organic chemists, respectively.

#### Modifications of Regular Courses

Under By-Law 2, page 290, a student will be permitted to substitute one study for another in any of the regular courses. By taking advantage of this provision students can fit themselves for special lines of professional work without losing their degree.<sup>1</sup>

#### Special Privileges for Graduate Students

Graduates of colleges or scientific schools are admitted to advanced standing in any of the regular professional courses, as candidates for a degree. Such students are given credit for all courses of which they have had the substantial equivalent, and are permitted to take any course of study for which they are qualified. If possible, such students should make arrangements to attend, before entrance, the required summer classes of the course which they intend to take.

#### ADMISSION

The Committee on Admissions of the Schools of Applied Science and Architecture has charge of everything relating to this subject. Candidates for admission to the first-year class, at its formation, must be at least eighteen years of age. For further regulations see Admission to Columbia College, page 217.

<sup>1</sup> It is particularly recommended, for example, that students whose professional work is likely to take them to Spanish America should arrange for a proper course in the Spanish language.

### Requirements for Admission

Every candidate for admission to the first-year class is required at the entrance examinations (see pages 191-208) to offer subjects amounting to sixteen points<sup>1</sup> as indicated below.

The candidate *must* offer:

	COUNTING IN POINTS
Chemistry (page 195).....	1
Freehand Drawing (page 196).....	1
English (page 197).....	3
Elementary German (page 199).....	2
Elementary History (page 202).....	2
Elementary Physics (page 206).....	1
Mathematics, elementary and advanced (page 205)	4
and two points from one of the following subjects:	
Elementary French (page 198).....	2
Elementary Latin (page 204).....	2
Spanish (page 207).....	2

### Certificates in Lieu of Entrance Examinations

The same regulations apply to the Schools of Applied Science as to Columbia College, and to the Committee on Admissions of the Schools of Applied Science and Architecture as to the Committee on Admissions of Columbia College (see page 218.)

### Report of Entrance Examinations

Similarly see the Report of Entrance Examinations in Columbia College, page 219.

Except for reasons of weight, no student will be admitted who is deficient in Mathematics, Chemistry, or Physics.<sup>2</sup>

### Admission to Advanced Standing

Candidates for admission from other universities or colleges, and those desiring to be admitted to advanced standing on examination, must make application in writing to the Chairman of the Committee on Admissions of the Schools of Applied Science and Architecture in time to reach him before September 11, 1905.

<sup>1</sup> The several subjects are stated in terms of units; the unit is a course of five periods weekly throughout an academic year of the preparatory school; the subjects are assigned units in accordance with the time required to prepare adequately upon them for college entrance.

<sup>2</sup> It is suggested that candidates deficient in these subjects in June arrange to take courses in them in the Summer Session of Columbia University, the Announcement of which will be sent upon application to the Secretary of the University.



The application must be accompanied by:

1. A catalogue of the institution for work in which credit is desired. The courses which the candidate has completed must be distinctly marked in this catalogue.
2. Properly certified official statements of his standing in the subjects which he offers.
3. Letters or other evidence vouching for his character and honorable dismissal from the institution from which he comes.

Each candidate for a degree seeking admission to advanced standing must show that he has attained proficiency in the equivalents of:

1. The requirements for admission to the first-year class.
2. All the prescribed studies already pursued by the class to which he seeks admission.

A candidate may be admitted notwithstanding deficiencies in some of these studies, but no candidate will be recommended for a professional degree until he shall have completed all the studies required for that degree.

No applicant will be allowed to enter the fourth-year class as a candidate for a degree after October 15 in any year.

The Committee on Admissions will notify the candidate by mail at the address given in his letter, between September 11 and 16, 1905,<sup>1</sup> what courses, of those offered, are accepted as equivalent to courses at Columbia University. The Committee only gives credit for complete courses. In cases where the work previously done by the candidate has not been accepted by the Committee, the candidate may present himself for examination during the week immediately preceding the opening of the University, in 1905, September 18-23, at the time and places at which the regular fall examinations are held. When no regular examination is held for the course at this time, the candidate may present himself for examination between the hours of 10 A.M. and 12 M. at the office of the head of the department giving the course. The schedule of fall examinations is to be obtained from the Registrar. A fee of \$5 is charged for these examinations, for all applicants who do not take them at the regular time.

In cases where credit for part of a course might be given, the candidate will present his case to the department concerned, at the times given above, for final adjustment. He should bring with him drawings, note-books, or other evidence showing the scope and character of the work for which he wishes credit.

Examinations will not be given after the opening of the University except for reasons of weight.

<sup>1</sup> When the candidate is at a considerable distance from the University, his application must be made earlier than September in order that he may receive the reply in time to present himself at the University on September 18, 1905.

### Special Students

Graduates of the School of Mines, the School of Chemistry, the Schools of Engineering, and of other institutions of equal standing, may pursue any subjects taught in the schools for which they are properly qualified.

Except for reasons of weight, satisfactory to the Committee on Admissions, no one will be received as a special student who is unable to meet the regular entrance requirements, or who has, within ten months of the time of his application, been rejected as a regular student, or has, within that period, become deficient as a regular student. No one will be admitted as a special student who wishes merely to pursue elementary subjects included among the requirements for admission to the College or Schools of Applied Science.

Persons of mature age who are not graduates, but who show special qualifications, are sometimes permitted to pursue special courses, but this permission is not given to others.

In the courses which they severally pursue special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students.

### Registration

For the regulations prescribed for all students, see page 22. For such further regulations as may be prescribed for the students of the Schools of Applied Science, see the Circular of General Information for 1905-06.

### Fees

(See page 23)

### By-Laws of the Faculty

1. No student is allowed to be a candidate for more than one of the professional degrees at the same time.
2. For reasons of weight the substitution of a subject in any professional course for an approved equivalent may be made by the Dean on the request of any candidate for a degree, provided that such substitution have the approval of the heads of the departments concerned and of the department giving the technical instruction that leads to the degree for which the student is a candidate.
3. Prompt and regular attendance is required of every student upon the exercises and examinations of the courses for which he is enrolled.
4. The instructor in each subject shall keep a careful record of the attendance, and, as far as practicable, of the scholarship, of all students entitled to attend that subject. It shall be the duty of the instructor to warn any student found deficient in scholarship or irregular in attendance, and if such deficient scholarship or irregular attendance continue thereafter he shall report his name through the head of the department to the Dean.

5. Any student so reported may be put upon probation by the Dean, or debarred by him from examination after due opportunity for personal explanation.

6. The Dean may also debar from examination in any subject any student reported to him as having incurred, with or without good reason, absences so numerous that, in the judgment of the head of the department concerned, it has become essential that he should repeat that subject; and any student so debarred shall not be admitted to examination in that subject until he has attended the full course therein.

7. By special permission of the Dean, with the concurrence of the head of the department concerned, students may attend exercises not required in the class or subject to which they belong, provided that such attendance does not interfere with the required exercises of their class. Such students are held to the same rules as to attendance and examination in their extra studies as in the required studies of their class.

8. Any student who shall have passed a satisfactory examination in Columbia College in any study forming a part of one of the professional courses in the schools under the Faculty of Applied Science will not be required to pursue that study a second time.

### Examinations and Standing

9. Regular examinations in each course will be held at the end of the first half-year (mid-year), or at the end of the year (final). All other examinations, except examinations for admission to advanced standing, are special examinations.<sup>1</sup> Such examinations for students debarred or deficient at the regular examinations will be held during the two weeks preceding the opening of the first half-year, and for members of the fourth class only, and for subjects belonging to that year only, in the first week in May. In the case of subjects and courses which require the use of collections and apparatus, the special examination will be held during the week following the holidays at Christmas.

10. A student found deficient in a subject at any of the examinations above provided will not be allowed a further special examination in that subject.

11. A student absent from the regular mid-year, final, or stated special examinations will be considered to have failed to pass that examination, and will not be allowed a further special examination in that subject, except that, if the absence was due to unavoidable circumstances, the Dean may, on proper written certification of these circumstances, grant such special examination.

12. The fee for special examination is \$5.00, which must be paid by the student before being admitted to the examination. If a student has special examinations in several subjects granted to him under one

<sup>1</sup> For such examinations a fee of \$5 is charged as in Rule 12.



permit from the Dean, specifying each subject, one fee of \$5.00 shall cover them all.

13. Every officer, after the stated examinations have been held, shall report to the Registrar a list of all students who have attended his instruction, indicating their proficiency by numbers on a maximum of 10, a mark below 6 constituting a failure to pass. A student reported in grade 6 in a majority of the subjects pursued by him in any year, and not reported in grade 8 or higher in the greater part of the remainder of such subjects, will not be permitted to go on with his class without the consent of the Dean and the head of the department giving the technical instruction that leads to the degree for which the student is a candidate. This consent will be given only for reasons of weight, but the student may enter the next succeeding class and pursue such subjects as may be required of him. Each student's record will be transmitted to him at the close of each year.

14. Any student who shall fail to pass in any of his studies at the regular mid-year or final examinations shall present himself for a second examination as above provided under the By-Laws; failing to pass in this second examination he shall be dropped from his class and required to repeat the subject with the next following class, but the Dean may exercise his discretion in excusing him from attendance on the exercises of such a subject, holding him to such other requirements as may seem advisable; failing a third time to pass a satisfactory examination in any study, his name shall be dropped from the roll of the school. A student so dropped shall have the right of appeal to the Faculty.

15. Students shall be enrolled in the class in which at least 75 % of their hours are taken; provided, however, that no student shall be advanced from the first to the second class who has any entrance condition in Mathematics, Chemistry, or Physics; no student shall be advanced to the third class who has any entrance conditions or any deficiencies of the first year; no student shall be admitted to the fourth class who has any deficiency in the first or second year, or more than one deficiency in the third year. A student dropped from the roll of his class shall not be permitted to attend any of the exercises of the said class without the consent of the Dean given for reasons of weight.

16. Students failing in any subject shall not be permitted to take advanced studies for which, by reason of such deficiency, they are not prepared; nor will such students be allowed to attend any Summer School without permission of the Dean.

17. Students who have received one degree and make application for another in the Schools of Applied Science must comply with all the requirements for that degree in force at the date of application.

#### **Memoirs and Summer Work**

18. During the vacations following the close of each year, memoirs, on subjects which will be assigned, are required of students in the



courses of Civil Engineering, Electrical Engineering, Mechanical Engineering, of Analytical, Industrial, and Organic Chemistry. The time specified for the completion and handing in of memoirs in chemistry and electrical engineering is November 1 of each year; for other memoirs and summer work the time specified is the second Monday in October.

19. Students of the second, third, and fourth classes who fail to hand in the memoirs, drawings, and other summer work required of them under the rules by a specified time, shall not be permitted to hand them in until the beginning of the next academic year, and failing in this latter requirement they shall be dropped from the roll of the class. This requirement may be waived, for reasons of weight, in the case of students of the fourth class.

### Laboratories and Drawing Rooms

20. No student will be allowed without permission in a laboratory or drawing room at a time when his attendance there is not due. During hours assigned for practical work in the laboratories and drawing rooms, the attendance of students is required.

### Elective Courses Open to Students in the College

All the studies of the first year, and many of the second-year courses of the School of Mines, the School of Chemistry, and the Schools of Engineering, are included among the electives offered to students of Columbia College (see page 223).

By a judicious arrangement of his course of study from the beginning, a graduate of Columbia College can thus enter the third year of any of the above schools.

### Excursions

During the session, the students may visit the different mines, machine shops, electrical and metallurgical establishments, chemical works, and points of geological interest of the city and its environs, and excursions for this purpose are frequently organized by the different departments.

### Summer Courses

SUMMER COURSE IN SURVEYING. (See page 87.)

SUMMER COURSE IN GEODESY. (See page 74.)

SUMMER COURSE IN MINING. (See page 146.)

SUMMER COURSE IN METALLURGY. (See page 141.)

SUMMER COURSE IN GEOLOGY. (See page 109.)

### Equipment and Collections

Detailed information as to the laboratories, museums, collections, libraries, and other facilities for study and research will be found in the departmental statements as follows:

- Chemistry, page 81.
- Civil and Sanitary Engineering, page 86.
- Electrical Engineering, page 102.
- Geology, page 108.
- Mechanical Engineering, page 132.
- Metallurgy, page 139.
- Mineralogy, page 142.
- Mining, page 144.
- Physics, page 170.

### Chemical and Assay Apparatus

(See page 28)

### OUTLINE OF PROFESSIONAL COURSES OF STUDY

(For details as to each course of study see the departmental statements, pages 65-190 of this volume.)

## COURSE IN MINING ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1 Chemistry 7 Civil Engineering 1 Mathematics 3a Mathematics 3b Mathematics 5 Mech. Engineering 1 Mineralogy 12 Physics 1	Chemistry 12 (2d term) Chemistry 24 Civil Eng. 14a (1st term) Electrical Engineering 9 Electrical Engineering 37 Geology 2 Mathematics 6 Mech. Engineering 1-2 Mechanics 1 (2d term) Mechanics 21 (1st term)	Chemistry 17 (1st term) Civil Engineering 5 Civil Eng. 6a (2d term) Elec. Eng. 5 and 105 (2d term) Geology 3 Geology 4 (2d term) Mech. Engineering 111 Mech. Engineering 114-115 Mechanics 1 (1st term) Metallurgy 1 Metallurgy 5 Mining 1 (1st term) Mining 2 (2d term) Mining 3 (2d term) Mining 7a (2d term) Mineralogy 6 (2d term)	2 Civil Eng. 12 (2d term) 1 Geology 6 (2d term) 1 Geology 10 (2d term) Geology 16a (2d term) 2 Mech. Engineering 12-13 Mech. Eng. 19 (1st term) 2 Mech. E. 20-21 (2d term) Mechanics 20 (1st term) Metallurgy 2-4 (1st term) Metallurgy 6a (1st term) Mining 4 Mining 5 (2d term) Mining 6 (2d term) Mining 7 Mining 9 (1st term) Mining 10 (1st term) Mining 24 (1st term) Thesis

<sup>1</sup> Geological option.<sup>2</sup> Mining option.

## COURSE IN METALLURGICAL ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1 Chemistry 7 Civil Eng. 1 Mathematics 3a Mathematics 3b Mathematics 5 Mech. Engineering 1 Mineralogy 12 Physics 1	Chemistry 9 Electrical Engineering 9 Electrical Engineering 37 Geology 2 Geology 4 (2d term) Mathematics 6 Mech. Eng. 11 (2d term) Mechanics 1 (2d term) Mechanics 21 (1st term) Mineralogy 6 (2d term) Physics 3, practice (1st term)	Chemistry 17 (1st term) Civil Engineering 5 Civil Engineering 6a Elec. Eng. 5 (2d term) Electrical Engineering 105 Geology 3 Mech. Engineering 1-2 Mechanics 1 (1st term) Mech. Engineering 10 Mechanics 4 Metallurgy 1 (1st term) Metallurgy 3 (2d term) Metallurgy 5 Metallurgy 6 Mining 3 (2d term) Mining 7a (2d term)	Chemistry 4 Chemistry 14 (1st term) Elec. Engineering 3 Mech. Engineering 12-13 Mech. Eng. 19 (1st term) Mech. E. 20-21 (2d term) Metallurgy 4 (1st term) Mining 4 Mining 5 (2d term) Mining 9 Mining 10 (2d term) Thesis



# COURSES IN ANALYTICAL, ORGANIC, AND INDUSTRIAL CHEMISTRY

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1 Chemistry 7 Mathematics 3a Mathematics 3b Mathematics 5 Mech. Engineering 1 Mineralogy 12 Physics 1	Chemistry 3 Chemistry 9 Chemistry 20 Chemistry 24 Elec. Engineering 9 Elec. Engineering 37 Mathematics 6	Chemistry 10 Chemistry 13 (1st term) Chemistry 17 (2d term) Chemistry 25 Chemistry 26 (2d term) 3 Chemistry 27 (1st term) Chemistry 34 Elec. Engineering 3 Mech. Eng. 11 (2d term) Mechanics 19 Metallurgy 1 and 5 1 2 Mineralogy 8 (2d term)	Chemistry 4 2 Chemistry 14 or 15 Chemistry 21 Chemistry 25 1 2 Chemistry 27 (1st term) 3 Chemistry 28 (2d term) 1 Chemistry 36 3 Elec. Eng. 5 (2d term) Elec. Engineering 105 Mech. Engineering 12-13 2 Metallurgy 3 (2d term) Metallurgy 2 and 4 (1st term) Thesis

<sup>1</sup> Organic option.    <sup>2</sup> Analytical option.    <sup>3</sup> Industrial option.

## COURSE IN CIVIL ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Botany 8 (1st term) Chemistry 1 Chemistry 7 Civil Eng. 1 (2d term) Mathematics 3a Mathematics 3b Mathematics 5 Mech. Engineering 1 Mech. Engineering 103-104 Physics 1	Chemistry 24 Civil Eng. 2 (1st term) Elec. Engineering 9 Elec. Engineering 37 Geology 18 (2d term) Mathematics 6 Mech. Engineering 2 Mech. Engineering 106 Mechanics 1 (2d term) Mechanics 21 (1st term) Metallurgy 3 (2d term) Mineralogy 5 (1st term) Physics 3, practice	Astronomy 30-31 Civil Engineering 4 Civil Engineering 5 Civil Eng. 6 (2d term) Civil Eng. 7 (1st term) Civil Eng. 8 (1st term) Civil Engineering 14 Elec. Eng. 5 (2d term) Elec. Eng. 105 (2d term) Mech. Eng. 11 (2d term) Mechanics 1 (1st term) Mechanics 4 (2d term)	Astronomy 33 (1st term) Civil Eng. 3 (2d term) Civil Engineering 9 Civil Engineering 10 Civil Eng. 11 (1st term) Civil Eng. 12 (1st term) Civil Eng. 12a (1st term) Civil Eng. 12b (1st term) Civil Eng. 13 (2d term) Mech. Engineering 12-13 Mech. Eng. 19 (1st term) Mech. E. 20-21 (2d term) Mech. Eng. 114, 115 Thesis

## COURSE IN ELECTRICAL ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1 Chemistry 7 Mathematics 3a Mathematics 3b Mathematics 5 Mech. Engineering 1 Mech. Engineering 103-104 Physics 1	Chemistry 11 (1st term) Chemistry 24 Electrical Engineering 9 Electrical Engineering 37 Mathematics 6 Mech. Engineering 2 Mech. Engineering 106-107 Mech. Eng. 110 (2d term) Mech. Engineering 11 Mechanics 1 (2d term) Mechanics 21 (1st term) Metallurgy 3 (2d term) Physics 43, theory Physics 3, practice	Civil Engineering 5 Elec. Eng. 1 (1st term) Elec. Eng. 4 (2d term) Electrical Engineering 10 Elec. Eng. 15 (2d term) Electrical Engineering 29 Mech. Engineering 12-13 Mech. Engineering 18 Mech. E. 114-115 (2d term) Mechanics 1 (1st term) Mechanics 4 (2d term) Mechanics 6 (1st term) Mechanics 7 (2d term)	Chemistry 37 (1st term) Elec. Eng. 2 (1st term) Electrical Engineering 3 Elec. Eng. 6 (2d term) Elec. Eng. 8 (2d term) Elec. Engineering 11-12 Elec. Eng. 22 (2d term) Elec. Eng. 23 (1st term) Elec. Eng. 25 (2d term) Mech. Eng. 19 (1st term) Mech. Eng. 20-21 (2d term) Mech. Engineering 117 Mech. Eng. 124 (1st term) Mechanics 4 (2d term) Mechanics 8 (1st term) Mechanics 9 (2d term) Thesis

## COURSE IN MECHANICAL ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1	Chemistry 24	Elec. Eng. 1 (1st term)	Elec. Eng. 2 (1st term)
Chemistry 7	Electrical Engineering 9	Elec. Eng. 4 (2d term)	Elec. Eng. 8 (2d term)
Mathematics 3a	Electrical Engineering 37	Elec. Eng. 27 (1st term)	Elec. Eng. 28 (1st term)
Mathematics 3b	Mathematics 6	Mech. Eng. 9 (1st term)	Elec. Eng. 23 (1st term)
Mathematics 5	Mech. Engineering 2	Mech. Eng. 10 (1st term)	Mechanical Engineering 17
Mech. Engineering 1	Mech. Engineering 6-7	Mech. Engineering 12-13	Mech. Eng. 19 (1st term)
Mech. Engineering 3-4	Mech. Eng. 110 (2d term)	Mech. Eng. 14, 15	Mech. Eng. 20-21 (2d term)
Physics 1, theory	Mech. Engineering 11	Mech. Engineering 16	Mech. Eng. 23 (1st term)
Physics 3, practice	Mechanics 1 (2d term)	Mech. Engineering 18	Mech. Engineering 24
	Mechanics 21 (1st term)	Mech. Engineering 119	<sup>1</sup> Mech. Engineering 25
	Mechanics 21 (1st term)	Mech. Engineering 22	Mech. Engineering 22-28
	Metallurgy 3 (2d term)	Mech. Engineering 26	Mech. Engineering 29-30
	Physics 3, practice	Mech. Engineering 27	<sup>3</sup> Mech. Engineering 31
		Mech. Eng. 30 (2d term)	<sup>3</sup> Mech. Engineering 32
		Mech. Engineering 41	<sup>3</sup> Mech. Engineering 33
		Mechanics 1 (1st term)	<sup>3</sup> Mech. Engineering 34
		Mechanics 4 (2d term)	<sup>3</sup> Mech. Engineering 42
			<sup>2</sup> Mech. Engineering 43-48
			<sup>1</sup> Mech. Engineering 50
			<sup>1</sup> Mech. Engineering 51, 52
			<sup>3</sup> Mech. Engineering 58
			Thesis

<sup>1</sup> Dynamic option.<sup>2</sup> Locomotive option.<sup>3</sup> Marine option.



## REGISTER OF STUDENTS

### Schools of Mines, Chemistry, and Engineering

#### FOURTH YEAR—CLASS OF 1905

##### MINING ENGINEERING

ANDERSON, GLENN.....White Sulphur Springs, Mont.  
 ARNOLD, LAWRENCE SEPTIMUS.....(Mhtn) New York City  
 BAUERNEBL, AUGUST JOSEPH, Jr.....Newark, N. J.  
 BUELL, THOMAS RECTOR.....Herndon, Va.  
 CANNON, HERBERT GROVE.....Cleveland, Ohio  
 CASE, ALBERT HERMON.....Springville, Mich.  
     Michigan Agricultural College, B.S., 1902.

COOK, FREDERICK STEPHEN.....St. Paul, Minn.  
 DANTZIGER, CLARENCE TIM.....(Mhtn) New York City  
 DONOVAN, PERCY WILLIAMS.....Dundas, Minn.  
 DYER, HAROLD PENNOCK.....St. Paul, Minn.  
 ERNEST, RICHARD HERMANN.....Denver, Colo.  
 FISHER, THOMAS EUSTACE.....(Mhtn) New York City  
 FOOTE, FRANCIS SEELEY, Jr.....Montclair, N. J.  
 FRAMBACH, CHARLES LEWIS.....Cheboygan, Mich.  
 GEIGER, ARTHUR WILLIAM.....Boston, Mass.  
 HAHNEL, AUGUST FRANK.....(Br) New York City  
 JONES, RICHARD M.....Oberlin, Ohio  
     Oberlin College, A.B., 1902.

KRAUT, MAX.....(Mhtn) New York City  
 MARBLE, RALPH NORRIS, Jr.....Duluth, Minn.  
 MARTIN, RALPH.....London, England  
 MEAD, HARRY LEVI.....Aurora, Ill.  
 McCURDY, ELLIOTT STEELE.....Wilmington, Del.  
 MILTENBERGER, GEORGE, Jr.....St. Louis, Mo.  
 NELSON, CARL N.....Buffalo, N. Y.  
 PAYSON, HAROLD.....Bristol, R. I.  
 PITNER, PAUL JEROME.....Evanston, Ill.  
 PORTER, JESSE COOMBS.....(Bklyn) New York City  
 POWELL, FREDERICK JAMES.....(Mhtn) New York City  
 RING, AMBROSE ELY.....(Mhtn) New York City  
 ROGERS, ROBERT BENSON.....(Mhtn) New York City  
 ROHLFS, OTTO DIEDRICH.....Seattle, Wash.  
 ROLLE, SIDNEY.....(Mhtn) New York City  
 SILVERMAN, HERBERT LUPLIN.....Cincinnati, Ohio  
 SMITH, ALWYN CHARLES.....Boulder, Colo.  
 STEVENS, EARL CLARK.....Deadwood, S. Dak.  
 WALZ, ANDREW.....(Mhtn) New York City  
 WHEELER, BLEECKER LANGDON.....(Mhtn) New York City

##### CIVIL ENGINEERING

BARSHALL, FREDERICK BAYARD.....(Mhtn) New York City  
     College of the City of New York, B.S., 1902.  
 BEHRMAN, SAMUEL.....(Mhtn) New York City

- BISHOP, HARTWELL.....(Mhtn) New York City  
Harvard University, A.B., 1903.
- CORNELL, MILTON LONGACRE.....(Mhtn) New York City  
CROWELL, FRANCIS STIRLING.....(Q) New York City  
HEYMAN, WILLIAM.....Jersey City, N. J.  
HUMPHREY, FREDERIC LEAROLD.....(Bklyn) New York City  
Jochum, Henry Lux.....(Mhtn) New York City  
College of the City of New York, A.B., 1901.
- LAZINSK, ABRAHAM.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- LUCAS, ROBERT JAMES.....(Br) New York City  
MALCOMSON, ALFRED SIDNEY.....Orange, N. J.  
MATTHEWS, CHARLES EARL.....Newark, N. J.  
SCHWARZ, SAMUEL ALEXANDER.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- SHIELDS, HAROLD.....Nicholson, Pa.  
Columbia University, A.B., 1903.
- STEEGMULLER, CHARLES ALBERT AUGUSTINE.....South Norwalk, Conn.  
TRUBENBACH, CONRAD DANIEL.....(Mhtn) New York City  
College of the City of New York, B.S., 1902.

## ELECTRICAL ENGINEERING

- BAUM, HARRY.....(Mhtn) New York City  
College of the City of New York, B.S., 1902.
- BRADLEY, WALTER EDWARD FOSKETT.....(Mhtn) New York City  
DROGE, HARMAN GRABAU.....(Q) New York City  
GOLDBERG, HARRY.....(Mhtn) New York City  
College of the City of New York, B.S., 1902.
- HAAS, HENRY CHARLES.....(Mhtn) New York City  
HOOPER, GEORGE HEBERTON, JR.....(Mhtn) New York City  
KOHLE, LOUIS FRANK.....(Mhtn) New York City  
LANG, ARTHUR GORDON.....Toronto, Canada  
PIERCE, WALTER LIDGERWOOD SMILLIE.....Scarborough, N. Y.  
POLLAK, LEO LAWRENCE.....(Mhtn) New York City  
College of the City of New York, B.S., 1902.
- ROCHESTER, THOMAS WALTER.....(Mhtn) New York City  
SCHOENBORN, WILLIAM ROBERT.....Hackensack, N. J.  
STOUTENBURGH, CHARLES HALL.....(Mhtn) New York City  
TRIPPE, WILLIAM HERON.....East Orange, N. J.  
WARD, FREDERICK ELLIS.....(Mhtn) New York City  
WERNER, GERARD BERNARD.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- WILLIAMSON, ALFRED.....(Mhtn) New York City  
Columbia University, Mech.E., 1903.
- WINETRAUB, ADOLPH ISRAEL MAN.....(Mhtn) New York City  
Lycée, Braila, Roumania, B.S., 1899.
- WOLFF, WILLIAM AUGUST.....(Mhtn) New York City

## MECHANICAL ENGINEERING

- ARNOLD, STANFIELD N.....(Mhtn) New York City  
BURCH, THOMAS HAMILTON, JR.....(Mhtn) New York City  
FISHER, HARRY ANNIS.....(Mhtn) New York City  
HOLLMANN, FREDERICK WILLIAM.....(Mhtn) New York City

KING, CHARLES ARTHUR.....Plainfield, N. J.  
 LOVEMAN, HERBERT SPENCER.....(Mhtn) New York City  
 MERRITT, LUCIUS ROBINSON.....(Mhtn) New York City  
 NUSIM, MELACH JOSEPH.....(Mhtn) New York City  
 Lycée reale, Braila, Roumania (equiv. A.B.), 1900.

STRONG, ROBERT MARQUIS.....Pasadena, Cal.  
 STRUSS, WILLIAM EDWARD.....(Mhtn) New York City

## METALLURGY

WILLIAMS, REMSEN TAYLOR.....(Q) New York City

## CHEMISTRY

HAHN, ALBERT WILLIAM.....(Mhtn) New York City  
 METTLER, ARTHUR JULIUS.....(Bklyn) New York City

## FOURTH YEAR—CLASS OF 1905

Mining Engineering.....	37
Civil ".....	16
Electrical ".....	19
Mechanical ".....	10
Metallurgy.....	1
Chemistry.....	2
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	85

## THIRD YEAR—CLASS OF 1906

## MINING ENGINEERING

ARGALL, GEORGE OATES.....Denver, Colo.  
 ARNOLD, GEORGE OLIVER.....(Mhtn) New York City  
 Iowa College, A.B., 1903.

ASHMEAD, DEVER CAMPBELL.....Yonkers, N. Y.  
 AUERBACH, HERBERT S.....Salt Lake City, Utah  
 BATES, WILLIAM STEPHEN.....(Mhtn) New York City  
 Columbia University, A.B., 1904.

BAXTER, HAROLD.....(Mhtn) New York City  
 BERRY, EDWIN STEWART.....San Francisco, Cal.  
 BOARDMAN, DONALD TWOGOOD.....Philadelphia, Pa.  
 CARRINGTON, WARING.....Newark, N. J.  
 CHURCH, JOHN ADAMS, JR.....(Mhtn) New York City  
 COOPER, EVERITT MORTON.....(Mhtn) New York City  
 DE LA BOUGLISE, ROBERT.....(Mhtn) New York City  
 DE SALLIER DU PIN, RENÉ ALEXANDER.....Watertown, N. Y.  
 DRUDING, FRANK DANIEL.....(Mhtn) New York City  
 EDDINGFIELD, FRANK TRAVERS.....Washington, D. C.  
 EDEBOHLS, ALPHONSE JULIUS.....(Mhtn) New York City  
 St. John's College, A.B., 1902.

ENOS, HERBERT CORY.....Denver, Colo.  
 EVANS, ALFRED WINTER....."The Grange," Westerham, Kent, England  
 FARRELLY, STEPHEN VALENTINE.....Morristown, N. J.  
 FRANC, CARL BENJAMIN, JR.....(Bklyn) New York City  
 FRANK, ALBERT.....(Mhtn) New York City  
 FULTON, CHESTER ALAN.....Yonkers, N. Y.  
 GIBERT, FREDERIC EDWARD, JR.....Biarritz, France  
 GRISWOLD, CLYDE TYLER.....Cortland, N. Y.  
 Amherst College, A.B., 1903.

HAIGHT, CLARENCE MICHAEL.....(Mhtn) New York City  
 HOWELL, JOSEPH MAUGHAN.....Logan, Utah

- HOYT, JOHN ROBERTSON.....Great Neck, L. I.  
 JOHNSON, ARTHUR MICHAEL.....Canal Dover, O.  
 JOHNSON, HORMAN NORTON.....Binghamton, N. Y.  
     Amherst College, A.B., 1903.  
 JOHNSON, ROBERT McL.....Newark, N. J.  
 KELLOGG, LEE OLDS.....St. Paul, Minn.  
     University of Minnesota, A.B., 1902.  
 KING, HAROLD FREDERIC.....Kingston, N. Y.  
 KNIPPIN, LLOYD MALCOLM.....Paterson, N. J.  
 LAWRIE, HAROLD NEWBOLD.....Atlantic Highlands, N. J.  
 LINDSLEY, GEORGE LEONARD.....Orange, N. J.  
 MACKALLOR, DEWITT CLINTON.....(Mhtn) New York City  
 McCLAIN, HENRY GRIFFITHS.....Iowa City, Iowa  
     State University of Iowa, A.B., 1903.  
 MILLS, RONALD VAN AUKEN.....Washington, D. C.  
 MITCHELL, WILLIAM SPINGLER.....(Mhtn) New York City  
 NEBECKER, AQUILA CHAUNCEY.....Lake Town, Utah  
     Agricultural College, B.S., 1903.  
 POCOCK, CECIL WALTER.....Bayonne, N. J.  
 PRENTIS, EDMUND ASTLEY, Jr.....(Mhtn) New York City  
 RICHARDS, GEORGE MILTON.....Ontario, Canada  
 RODEN, BENJAMIN FRANKLIN, Jr.....Birmingham, Ala.  
     Howard College, C.E., 1902.  
 SCHMITT, FREDERICK WILLIAM.....Lewistown, Mont.  
     Montana Agricultural College, B.S., 1903.  
 SCHULTZ, ROBERT SPENCER, Jr.....Philadelphia, Pa.  
 SCOTT, ARTHUR CLEVELAND.....(Br) New York City  
 SEDGWICK, ALLAN ERNEST.....York, Neb.  
 SEIFERT, HANS FREDERICK.....Jersey City, N. J.  
 SIMPSON, KENNETH MILLER.....Beaver Falls, Pa.  
     Columbia University, A.B., 1903.  
 TALCOTT, MORRIS GARDNER.....Talcottville, Conn.  
     Yale University, A.B., 1902.  
 TAYLOR, HENRY BOWMAN.....Kansas City, Mo.  
 TENNY, JAMES BRAND.....Tientsin, China  
 THOMAS, CHARLES SEWELL, Jr.....Denver, Colo.  
 VAN SICLEN, MATTHEW.....Cornwall, N. Y.  
     Amherst College, A.B., 1902  
 VILLA, ALBERTO.....City of Mexico, Mexico  
 WALLOWER, FRANK CARMANY.....Harrisburg, Pa.  
     Princeton University, C.E., 1903  
 WILLETS, ROBERT HENRY.....Roslyn, N. Y.  
 YOUNG, ALFALES BURGESS.....Salt Lake City, Utah

## CIVIL ENGINEERING

- ALLEN, CLEVELAND.....(Mhtn) New York City  
 BAYLIS, ROSWELL SPENCER.....Huntington, L. I.  
 BECKER, RUDOLPH CONRAD.....(Mhtn) New York City  
     College of the City of New York, B.S., 1903  
 BENHAM, WEBSTER LANCE.....(Mhtn) New York City  
 BENJAMIN, HERBERT I.....(Mhtn) New York City  
 BLICKENSDEPFER, CLARK.....Denver, Colo.  
 BODE, WILLIAM ADOLF.....(Mhtn) New York City  
 CHURCHILL, LEWIS THOMAS.....Dunellen, N. J.  
 COSGROVE, JOHN DANIEL.....(Bklyn) New York City



- DEUTSCH, MAURICE.....(Mhtn) New York City  
 FINCH, JAMES KIP.....(Mhtn) New York City  
 GOODWIN, HENRY HARRISON.....Medina, N. Y.  
 GREENE, RUSSELL DE COSTA.....(Mhtn) New York City  
 HOSFORD, LEONARD POST.....(Bklyn) New York City  
 KLINE, HENRY JAMES.....(Mhtn) New York City  
 MCKINNEY, FRANCIS WILLIAM.....Madison, N. J.  
     Columbia University, A.B., 1904.  
 MERRITT, JAMES H.....Tarrytown, N. Y.  
 OTT, CHARLES A.....(Mhtn) New York City  
 PITOU, EUGENE, JR.....(Mhtn) New York City  
     Columbia University, A.B., 1904.  
 POLISHOOK, SAMUEL NOAH.....(Mhtn) New York City  
 SCHWANEFLUGEL, CHARLES ALBERT.....(Q) New York City  
 SIGMUND, BENJAMIN JOSEPH.....(Mhtn) New York City  
 THOMAN, WILLIAM FREDERICK.....(Mhtn) New York City  
     Columbia University, A.B., 1903.  
 TOLL, ROGER WOLCOTT.....Denver, Colo.  
 WILSON, ROBERT CLIFFORD.....Newark, N. J.

## ELECTRICAL ENGINEERING

- BLEYER, ARTHUR.....(Mhtn) New York City  
 BOLTON, ARTHUR THOMAS.....(Br) New York City  
 CAMPBELL, CLARENCE LEWIS.....Cincinnati, Ohio  
 CARLBACH, WALTER MAXWELL.....(Mhtn) New York City  
 EBLING, ROBERT WILLIAM.....(Br) New York City  
 FERENCZY, ARTHUR.....(Mhtn) New York City  
     Reale schule, Hungary (equiv. A.B.), 1902.  
 FETTRECH, CHARLES SIMMONS.....(Mhtn) New York City  
 FREUND, MORTIMER.....(Mhtn) New York City  
 GAY, FRAZER WALKER.....Newark, N. J.  
     Columbia University, A.B., 1904.  
 GOLDBAUM, LOUIS.....(Bklyn) New York City  
 JOSEPHI, ROBERT.....(Mhtn) New York City  
 KAUFMAN, ALFONSE.....(Mhtn) New York City  
 KILBOURNE, COVINGTON GUION.....(Mhtn) New York City  
 KIRSCHBERG, HAROLD.....(Mhtn) New York City  
     College of the City of New York, B.S., 1903.  
 KNAKAL, WILLIAM ROBERT.....(Mhtn) New York City  
     College of the City of New York, B.S., 1903  
 KNIGHT, CHARLES CUDLIPP.....(Mhtn) New York City  
 KREUDER, HERMAN ERNST.....(Mhtn) New York City  
     Columbia University, A.B., 1904.  
 LICHTENBERG, J. CHESTER ALAN ARTHUR.....(Mhtn) New York City  
 MORRIS, ALFRED BUTT.....(Mhtn) New York City  
 NEWTON, EARL ROTH.....Haverstraw, N. Y.  
 NIEMANN, EDWARD.....(Mhtn) New York City  
     College of the City of New York, B.S., 1903.  
 PALMER, AUSTIN PHELPS.....(Bklyn) New York City  
 POPCKE, ARTHUR GEORGE.....(Mhtn) New York City  
 READ, JAMES PAULDING.....Newark, N. J.  
     Rutgers College B.S., 1901.

SAQUI, EMANUEL.....	(Mhtn) New York City
SCHWARZKOPF, WILLIAM.....	(Mhtn) New York City
SNEDEKER, CLARENCE FELTER.....	Haverstraw, N. Y.
SOLOW, DAVID EDWARD.....	(Br) New York City
STEVENS, OSCAR EGERTON.....	(Q) New York City
SUSSMAN, MAX HIRSCH.....	Mohegan, Conn.
TANZ, ISADORE.....	(Mhtn) New York City
College of the City of New York, B.S., 1903.	
VAN WAGENEN, EDWARD.....	(Mhtn) New York City
WATKINS, SAMUEL SHELTON, Jr.....	Owensboro, Ky.
WIECHERS, JOHN HENRY.....	City of Mexico, Mexico

## MECHANICAL ENGINEERING

ASHLEY, EUGENE.....	(Mhtn) New York City
BARNABY, JAMES CHRISTY.....	(Mhtn) New York City
BORSODY, LOUIS.....	(Mhtn) New York City
CARPENTER, HAROLD NATHANIEL.....	North Hoosick, N. Y.
CONNELL, WILLIAM HENRY.....	Pittsburg, Pa.
COOKSON, JAMES S.....	(Mhtn) New York City
CURTIS, GERALD BECKWITH.....	Brookfield Center, Conn.
DE LA TORRE, MANUEL.....	Santiago, Cuba
DEL RIO, RAMÓN.....	Barcelona, Spain
DUNLOP, WILLIAM CARRINGTON.....	Richmond, Va.
JONES, RUSSELL COMPTON.....	(Mhtn) New York City
KAPLAN, HARRY.....	(Mhtn) New York City
College of the City of New York, B.S., 1904.	
MCINTYRE, MALCOLM.....	(Mhtn) New York City
MERRITT, JOHN ISRAEL.....	Whitestone, N. Y.
OLYPHANT, ROBERT MORRISON, Jr.....	(Mhtn) New York City
PIGOTT, REGINALD JAMES SEYMOUR.....	(Mhtn) New York City
PUTNAM, WORCESTER.....	Brookline, Mass.
RIDDER, JOSEPH EDWARD.....	(Mhtn) New York City
RUHE, ARTHUR.....	(Mhtn) New York City
SPENCER, JAMES BEAUMONT.....	(Mhtn) New York City
STROBRIDGE, GEORGE.....	(Mhtn) New York City
SUTRO, HERBERT ADOLF.....	(Mhtn) New York City
THORP, THOMAS JOSEPH.....	(Mhtn) New York City
WARD, EVERETT, Jr.....	(Mhtn) New York City
WESTBROOK, FRANCIS ABEKEN.....	(Bklyn) New York City

## METALLURGY

DUDEN, FREDERICK HENRY.....	(Br) New York City
Columbia University, A.B., 1902.	
HESS, EDWARD.....	(Mhtn) New York City
JACOBS, SYDNEY BRADSHAW.....	Yonkers, N. Y.

## CHEMISTRY

DOTY, HENRY SAFFORD.....	Yonkers, N. Y.
FORST, LEO BERTHOLD.....	Louisville, Ky.
KIRBY, CUTHBERT MOULLINARD.....	(Q) New York City
KRESS, OTTO.....	(Mhtn) New York City
NIEDER, PHILIP GEORGE.....	Fanwood, N. J.
NOLTHENIUS, PAUL TUTEIN.....	Amsterdam, Holland
SEIL, HARVEY AMBROSE.....	Perth Amboy, N. J.
Columbia University, A.B., 1903.	

## THIRD YEAR—CLASS OF 1906

Mining Engineering.....	59
Civil ".....	25
Electrical ".....	34
Mechanical ".....	25
Metallurgy.....	3
Chemistry.....	7

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## SECOND YEAR—CLASS OF 1907

## MINING ENGINEERING

ARCHBALD, HUGH.....	Scranton, Pa. Yale University, A.B., 1903.
BEATTIE, HAROLD MAIRS.....	(Mhtn) New York City
BRILL, PAUL KORTRIGHT.....	(Bklyn) New York City
BURDETTE, RICHARD STUART.....	Cliffside, N. J.
CHISHOLM, OLIVER PERRY.....	Bozeman, Mont.
CLAPP, LAWRENCE RIPLEY.....	(Mhtn) New York City
CLARK, FREDERICK HUNTINGTON.....	(Mhtn) New York City
DEHUFF, ARTHUR ISADORE.....	Spokane, Wash.
DESPARD, CHARLES SMITH, Jr.....	Parkersburg, W. Va. St. John's College, A.B., 1902.
DIER, ALFRED AUSTIN.....	Bozeman, Mont.
DONNELLY, THOMAS FRANCIS.....	(Mhtn) New York City
DOON, CHARLES W.....	(Mhtn) New York City
DOTY, OLIVER KEESE.....	(Mhtn) New York City
DUNCAN, DAVID.....	(Bklyn) New York City
DUSEL, WILLIAM JOHN.....	(Mhtn) New York City
ELSING, MORRIS JESUP.....	(Bklyn) New York City
FLANDERS, JOHN AIKEN.....	(Mhtn) New York City
FLEISSNER, GUSTAV LUDWIG.....	(Mhtn) New York City
GARDNER, WALTER.....	Stanstead Lodge, Forest Hill, London, England
GOLDMAN, MARCUS ISAAC.....	(Mhtn) New York City Harvard University, A.B., 1901; B.S., 1902.
GRIFFITH, RALPH FLEKHER.....	Pittsburg, Pa.
HARTOG, VICTOR.....	Beaconsfield, Kimberley, South Africa South Africa School of Mines, E.M., 1901; B.S., 1903.
HILL, HAROLD WILLIAM.....	Buffalo, N. Y.
HOCHSCHILD, SALI.....	Frankfurt, Germany Realgymnasium, Worms, Germany (equiv. A.B.), 1903.
HOUSE, HENRY ARTHUR.....	Duluth, Minn.
KINSEY, REGINALD GEORGE.....	Southampton, England
KRUEGER, KARL PAUL.....	Bozeman, Mont.
KRUSE, FREDERICK, JR.....	Central City, Colo.
LANDERS, MARSDEN HENRY.....	San Francisco, Cal.
LITTLE, JAMES MACPARLANE.....	Towanda, Pa.
LUND, FRANCIS NAPIER.....	(Mhtn) New York City
MARSH, ROBERT, JR.....	Salt Lake City, Utah
McKAIG, JOHN STUART.....	(Mhtn) New York City Princeton University, B.S., 1903.
MOSES, ABRAHAM.....	(Mhtn) New York City College of the City of New York, A.B., 1903.
NOTMAN, ARTHUR.....	(Bklyn) New York City Harvard University, B.S., 1903.

OVERBEEK, JOHN BAGOT.....	Cape Town, South Africa
South African College, A.B., 1902	
OWEN, WILLIAM ROLAND, JR.....	Denver, Colo.
ROBERTS, JOHN THOMAS, JR. ....	Wanakah, N. Y.
RUPP, FREDERICK LOUIS.....	(Mhtn) New York City
SAGE, WARREN MORRILL.....	(Mhtn) New York City
SAYRE, MORTIMER F.....	Newark, N. J.
STEPHENS, RODERICK.....	(Br) New York City
SUYDAM, ALBERT GODFREY.....	Ridgefield, N. J.
TAFT, THOMAS KNAPP.....	Cornwall, N. Y.
TULLOCH, THOMAS HILDRUP.....	Forest Glen, Md.
TWEEDY, ANDREW MELLICK.....	Knickerbocker, Texas
WEST, HENRY JAMES.....	Garnerville, N. Y.
Columbia University, A.B., 1902.	
WILCOX, SIDNEY HELMUTH.....	(Mhtn) New York City
WOODS, WILLIAM ABBOTT EDOUARD.....	San Francisco, Cal.

## CIVIL ENGINEERING

ATWATER, HUNTINGTON CLARK.....	Denver, Colo.
BABCOCK, DUDLEY PAUL.....	Fanwood, N. J.
BERGMAN, HARRY MONTIFILORE.....	(Mhtn) New York City
BOSWORTH, WILLIAM HAMLIN.....	(Bklyn) New York City
BROWN, OTTO.....	(Mhtn) New York City
CLARKSON, JULIAN GIRARD.....	(Mhtn) New York City
DE LARA, FRANK BELASCO.....	(Mhtn) New York City
DICKSON, CHARLES FRANCES.....	Cincinnati, Ohio
DODMAN, ALFRED CHARLES, JR.....	(Mhtn) New York City
DOUGHTY, JOHN BODINE.....	Jericho, N. Y.
ELLIOTT, GUY RUPERT BETTS.....	Thorne's Cove, Nova Scotia
FORBES, FRANCIS BONNER.....	(Mhtn) New York City
Columbia University, A.B., 1904.	
FRIEDLAND, JACOB M.....	(Mhtn) New York City
GARDINER, CHARLES ROCKWELL.....	(Mhtn) New York City
GORREN, DANIEL.....	Rye, N. Y.
GRAFF, CHARLES JOHN.....	(Br) New York City
KILIAN, THEODORE PHILIP.....	(Mhtn) New York City
LANDSMAN, SIGMUND.....	(Mhtn) New York City
LINDGREN, OSCAR HJALMAR.....	Öreba, Sweden
LINDO, ALBERT.....	(Mhtn) New York City
LISMAN, OLIVER CROMWELL.....	Mt. Vernon, N. Y.
LYNN, HENRY HUDSON EDWIN.....	(Mhtn) New York City
MARTIN GEORGE FRED.....	(Br) New York City
MCDONNELL, ALEXANDER JOSEPH.....	(Mhtn) New York City
MENOCAL JOSEPH G.....	Havana, Cuba
MEYER, HANS FRANK.....	(Mhtn) New York City
PERRY, ARTHUR CECIL FOX.....	(Br) New York City
RENNER, FRANK AXTELLE.....	(Br) New York City
ROBERT, CHARLES SIMPSON.....	Plainfield, N. J.
SCHWEGLER, GEORGE.....	(Mhtn) New York City
STEINBERG, MORRIS ARTHUR.....	(Mhtn) New York City
College of the City of New York, A.B., 1904.	
STUHRMAN, EDWARD AHLERT.....	(Mhtn) New York City
TAYLOR, RICHARD MAXWELL.....	(Mhtn) New York City
TIERNEY, JAMES AMBROSE.....	(Mhtn) New York City
VEVE, SANTIAGO.....	Fajardo, Puerto Rico
VOM SAAL, FRED MAXIMILIAN.....	(Mhtn) New York City



WEINTRAUB, VICTOR.....(Mhnt) New York City  
 ZABRISKIE, GEORGE ELMER.....Newark, N. J.

## ELECTRICAL ENGINEERING

AIGELTINGER, ARTHUR.....(Mhnt) New York City  
 ARNSFIELD, JAMES JULIUS.....(Mhnt) New York City  
 BARTELD, HENRY CHRISTOPHER.....(Bklyn) New York City  
 BOOSS, FREDERICK E.....(Mhnt) New York City  
 BOWIE, WILLIAMSON BOURDETTE.....(Bklyn) New York City  
 CAUCHOIS, REGINALD WADSWORTH.....(Mhnt) New York City  
 COSTELLO, THOMAS JOSEPH.....(Mhnt) New York City  
 DOTY, ARCHIBALD.....Yonkers, N. Y.  
 FARRER, HENRY EDWIN.....(Bklyn) New York City  
 FORD, FREDERIC CARPENTER.....(Mhnt) New York City  
 FRIEDMAN, WILLIAM HENRY.....(Mhnt) New York City  
 GOLDBERG, SAMUEL.....(Bklyn) New York City  
 College of the City of New York, A.B., 1902.

GREIFF, VICTOR RAPHAEL.....(Mhnt) New York City  
 HAINES, EDWARD JOSEPH.....(Bklyn) New York City  
 HALPIN, ZACH POWER.....(Mhnt) New York City  
 HARD, STRAITON.....(Q) New York City  
 HEIDGERD, GUSTAV HERMAN.....(Mhnt) New York City  
 College of the City of New York, A.B., 1903.

HEIDTMANN, ALBERT WILLIAM.....Mt. Vernon, N. Y.  
 JENKINS, JOHN CAMERON.....(Mhnt) New York City  
 LEBOWITZ, WILLIAM.....(Mhnt) New York City  
 LEVIN, HERTZ.....(Mhnt) New York City  
 LITCHFIELD, ROBERT BACH.....(Bklyn) New York City  
 LYON, WILLIAM WARREN, JR.....(Mhnt) New York City  
 MCCARTHY, CHARLES DENNIS.....(Bklyn) New York City  
 MCMORROW, CHARLES.....(Mhnt) New York City  
 MERKLINGER, THEODORE EMIL.....Newark, N. J.  
 MOEGLING, BRUNO AUSTRALIAN.....(Q) New York City  
 MORA, ERNESTO JOSÉ.....Easton Pa.  
 O'CONOR, DANIEL JOSEPH.....(Mhnt) New York City  
 St. Francis Xavier College, A.B., 1903.

O'NEIL, LEO FRANCIS DREW.....Boston, Mass.  
 Boston College, A.B., 1902.

PAGANINI, PIERO S.....Jersey City, N. J.  
 PRIDE, GEORGE HUDDLESTON.....(Mhnt) New York City  
 RHAME, JOHN FOOTE.....Wantagh, N. Y.  
 SEELIG, ALFRED EPHRAIM.....(Mhnt) New York City  
 SIMPSON, WILLIAM JACOB.....(Mhnt) New York City  
 SINDEBAND, MAURICE L.....(Mhnt) New York City  
 SUNDHEIMER, ARTHUR ISAAC.....(Mhnt) New York City  
 WILLIAMS, WILSON BISSELL.....Jersey City, N. J.  
 WILLIS, JAMES.....(R) New York City

## MECHANICAL ENGINEERING

ARNSTEIN, LEONARD ALBERT.....(Mhnt) New York City  
 BAILEY, RAYMOND DE WITT.....Summit, N. J.  
 BENSON, CLYDE.....Nyack, N. Y.  
 CARBONE, MARIO GEROLAMO.....(Mhnt) New York City  
 CASSERLY, FRANCIS PATRICK.....(Mhnt) New York City  
 FINCH, JAMES MYERS.....New Rochelle, N. Y.  
 FLUHRER, LEWIS PULLMAN.....(Mhnt) New York City  
 FRIED, JEROME ARTHUR.....(Mhnt) New York City

GERHARD, HANS WEISKIRCH.....	(Bklyn) New York City
HOYNES GEORGE WAYLAND.....	(Mhnt) New York City
HUNTINGTON, WILLIAM CHAPIN.....	Elizabeth, N. J.
HUTTON, MANCIUS SMEDES.....	(Mhnt) New York City
MEAD, RAYMOND HINMAN.....	Newark, N. J.
MILLER, JOHN.....	(Mhnt) New York City
MILLETT, KENNETH BALLARD.....	(Mhnt) New York City
MILLWARD, JAMES BROOMFIELD.....	(Mhnt) New York City
MONKS, WILLIAM DOUGLAS.....	Mt. Vernon, N. Y.
NAYLOR, GEORGE, JR.....	Peekskill, N. Y.
PEACOCK, WILLIAM THOMAS.....	(Bklyn) New York City
PRALL, JOHN GOLDSMITH.....	(Q) New York City
PURDY, ARTHUR LANE.....	Port Chester, N. Y.
SCHOEFER, LOUIS J.....	(Br) New York City
SCHOONMAKER, RALPH BAILEY.....	Plainfield, N. J.
SIGERSON, EDMUND BURKE VICTOR.....	(Mhnt) New York City
SLOAT, HALBERT MAITLAND.....	Mt. Vernon, N. Y.
Cornell University, A.B., 1904.	
SMITH, HERMAN RAYMOND.....	(Bklyn) New York City
UHLIG, WILLIAM.....	(Bklyn) New York City
ULMANN, AUGUST, JR.....	Yonkers, N. Y.

## METALLURGY

LAGE, FREDERICO.....	Rio-de-Janeiro, Brazil
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## CHEMISTRY

BOECK, PERCY ALBERT.....	St. Louis, Mo.
BOYNTON, WILLIAM HENRY.....	Nyack, N. J.
FRENCH, ROBERT MANSFIELD.....	New Rochelle, N. Y.
HOLLIDAY, EDGAR PERCY.....	(Bklyn) New York City
KROPFF, ALFRED HEMMER.....	(Mhnt) New York City
MESTRE, HAROLD.....	(Mhnt) New York City
SINCLAIR, J. EDWIN.....	Newark, N. J.
WARTH, ALBIN HENRY.....	(R) New York City
WIGGIN, JOHN DAVID.....	Orange, N. J.
WIGGIN, ROLLIN HENRY.....	Orange, N. J.
WILLIAMS, RICHARD GRANT.....	Mt. Vernon, N. Y.

## SECOND YEAR—CLASS OF 1907

Mining Engineering.....	49
Civil “.....	38
Electrical “.....	39
Mechanical “.....	28
Metallurgy.....	1
Chemistry.....	11
Total.....	166

## FIRST YEAR—CLASS OF 1908

## MINING ENGINEERING

ANNAN, ROBERT.....	London, England
APEZTEGUIA, JULIO JOSI.....	(Mhnt) New York City
BAMBER, WILLIAM ROGER.....	(Bklyn) New York City
BREWSTER, ROUSE KENDALL.....	(Mhnt) New York City

BRUNS, CHRISTOPHER LESLIE, Jr.	(Mhtn) New York City
CARR, HARRY CHILES	(Mhtn) New York City
COOPER, JOHN RAYMOND	(Mhtn) New York City
CRAWLEY, GEORGE EDWIN	(Mhtn) New York City
DANEHY, GEORGE WELSH	(Br) New York City
DANIEL, GEORGE WILLIAM	(Mhtn) New York City
DAVIS, HENRY FARMER	Butte, Mont.
DUNBAR, JOHN MAYES	Dobbs Ferry, N. Y.
DUNWOODIE, CHARLES EDWARD	Kingston, N. Y.
ESPINOSA, CARLOS	Lima, Peru
ESTEE, RUSH GILLAN	Montpelier, Vt.
GOLDSTONE, LAWRENCE PRESTON, Jr.	(Mhtn) New York City
GOULD, KINGDON	Lakewood, N. J.
GRAHAM, HORACE R.	(Mhtn) New York City
HANKE, ADOLPH GUSTAV	Cincinnati, Ohio
HEIGHE, FREDERICK CALVERT	(Mhtn) New York City
HIRSH, RALPH TUSKA	(Mhtn) New York City
HOLMQUIST, GUSTAVE S.	(Mhtn) New York City
HOSTER, MANFRED THEODORE	Rutherford, N. J.
HUBBELL, ALLAN HILDRETH	(Bklyn) New York City
College of the City of New York, A.B. 1904.	

HUNTZICKER, FRANCIS JACOB	Neillsville, Wis.
HURLEY, MARCUS LATIMER	(Mhtn) New York City
JUSSUP, DOUGLAS WEBSTER	Salt Lake City, Utah
JONES, LEWIS	Cleveland, Ohio
KATZ, HOWARD M.	Kissimmee, Florida
KITSON, HOWARD WALDO	(Mhtn) New York City
KOZMINSKY, LESLIE MONTEFIORE	Melbourne, Australia
LEWIN, JOHN C.	Port Chester, N. Y.
LEWYN, OSWALD MARH	(Mhtn) New York City
LONGWELL, ROBERT AGNEW	(Mhtn) New York City
MAY, ERNEST RUDOLPH, Jr.	Lead, So. Dakota
MCCLAIVE, DONALD	(Mhtn) New York City
MILLER, WILLIAM TRAVIS	(Mhtn) New York City
MUIR, DOWNIE D., Jr.	(Mhtn) New York City
SCOTT, THOMAS KLINE	(Q) New York City
SMILLIE, CHARLES VAN VALKENBURGH	(Mhtn) New York City
SPRAGUE, FRANKLIN K.	(Mhtn) New York City
SYVERSON, THEODORE SIGWALD	Cooperstown, No. Dakota
TONKING, WILLIAM WILDRICK	Dover, N. J.
UNTERMYER, IRWIN	(Mhtn) New York City
VON SALTZA, PHILIP	(Mhtn) New York City
WILLIAMS, JOHN HERBERT ANWYL	(Mhtn) New York City
YOUNG, ELMER VINCENT	(Bklyn) New York City

## CIVIL ENGINEERING

BABCOCK, HENRY GRINNELL	Fanwood, N. J.
BALLACH, SAMUEL BORIS	(Mhtn) New York City
BODE, GROVER HARTMANN	(Mhtn) New York City
CARLETON, F. DUDLEY	Yonkers, N. Y.
FRAHER, THOMAS AUGUSTINE	(Mhtn) New York City
GERMANSKY, RAPHAEL	(Mhtn) New York City
HALL, CHARLES LINCOLN	(Mhtn) New York City
HELMRICH, GEORGE LESTON	(Br) New York City
JOLY, CHARLES LEVEQUE	Asbury Park, N. J.
KNIGHT, JOHN LINDMARK	(Mhtn) New York City
KRAUS, ARTHUR	(Mhtn) New York City

KRÖGER, HENRY ANDREW.....	(Br) New York City
KURR, FRED L.....	(Mhtn) New York City
MARSHALL, WILLIAM R.....	(Br) New York City
MASH, WILLIAM WATERFIELD, Jr.....	(Mhtn) New York City
MENKE, WILLIAM.....	(Mhtn) New York City
MISHKIN, VICTOR.....	(Mhtn) New York City
MOTT, KENNETH.....	Peekskill, N. Y.
NATHAN, SAMUEL.....	(Br) New York City
NUEBLING, EDWARD.....	Reading, Pa.
PISHKIN, HARRY CHARLES.....	(Mhtn) New York City
REED, LATHAM RALSTON.....	(Mhtn) New York City
ROTHBERG, JACOB B.....	(Bklyn) New York City
SMITH, MARCO CARMELICH.....	(Mhtn) New York City
SNOOK, CURTIS PENDLETON.....	(Bklyn) New York City
TORBORG, GERHARD RUDOLPH.....	(Mhtn) New York City
WILLIAMSON, DOUGLAS BLEECKER.....	(Mhtn) New York City
WILSON, WILLIAM.....	(Mhtn) New York City
YOUNG, JOHN JOSEPH.....	(Q) New York City

## ELECTRICAL ENGINEERING

ALEXANDER, WILLIAM AUSTIN.....	(Bklyn) New York City
BAKER, RAYMOND WILLARD.....	(Mhtn) New York City
BERGMANN, RUDOLPH CHARLES.....	(Mhtn) New York City
BOND, STANLEY FRANK.....	Middlebury, Vt. Middlebury College, A.B., 1904.
BOYKIN, ROBERT HILL.....	Richmond, Va.
BURDICK, REGINALD HOUGHTON.....	Pelham Manor, N. Y.
CLUNE, MATTHEW THOMAS.....	Peekskill, N. Y.
CRECELIOUS, FREDERICK WILLIAM.....	(Q) New York City
HARRISON, ALFRED.....	Tecna, Chile, So. America
HEHRE, FREDERICK WILLIAM.....	(Mhtn) New York City
HEYMAN, HARRY ARCHER.....	(Br) New York City
HOLSLAG, CLAUDE JOSEPH.....	Peekskill, N. Y.
JOHNSTON, WALTER BAYNE.....	(Mhtn) New York City
JONES, EDWARD CROSBY.....	(Mhtn) New York City
KNIGHT, HERBERT HARRIS.....	Fanwood, N. J.
LUSCOMB, HARRIS TRAILL.....	(Bklyn) New York City
MACCUTCHEON, ALECK.....	Goldens Bridge, N. Y.
MACCUTCHEON, PAUL J.....	Goldens Bridge, N. Y. New York State Normal College, Pd.B., 1902.
MASON, FRANK LOUIS.....	(Br) New York City
MCCLURE, WALTER CECIL.....	(Mhtn) New York City
MOORE, STEWART LA MONT.....	(Mhtn) New York City
MURPHY, HENRY CRUSE.....	(Bklyn) New York City
PEARSE, CHARLES ALLEN.....	(Mhtn) New York City
QUEZADA, CECIL T.....	Costa Rica, Central America
REIZENSTEIN, CHESTER L.....	(Mhtn) New York City
ROCKWOOD, JOHN PARET.....	Upper Montclair, N. J.
SERHEY, BENJAMIN.....	Pocantico Hills, N. Y.
SINGER, WILLIAM BERNARD.....	(Mhtn) New York City
SPITZER, BENJAMIN.....	(Mhtn) New York City
STAUB, ABRAHAM.....	(Bklyn) New York City
SWAN, WILLIAM LINCOLN, Jr.....	Oyster Bay, L. I.
TOWNSEND, HENRY CLARK, Jr.....	(Mhtn) New York City Columbia University, A.B., 1903.



VISCARDI, JOSEPH.....	(Mhtn) New York City
WAHLIG, RUDOLPH CHARLES.....	(Br) New York City
WATSON, EVERETT VAIL.....	(Mhtn) New York City
WERNER, GUSTAV, JR.....	(Mhtn) New York City
WHITE, MAJOR LEE.....	(Mhtn) New York City
WHITE, RALPH LEE.....	(Mhtn) New York City
WILLIAMSON, GEORGE.....	Dobbs Ferry, N. Y.
WILSON, JAMES ELIJAH.....	Middletown, Conn.
Wesleyan University, Ph.B., 1904.	

WISE, WILLIAM WALLACE.....	(Mhtn) New York City
WOTICKY, CHARLES.....	(Mhtn) New York City

## MECHANICAL ENGINEERING

ALLEN, HARRY, JR.....	Yonkers, N. Y.
BATES, GUY.....	Parsippany, N. J.
BRIDGEMAN, LINDEN WENTZEL.....	(Q) New York City
BYRNE, FREDERICK JOHN.....	(Mhtn) New York City
CARTER, DOUGLAS SKELTON.....	(Mhtn) New York City
CHRYSTIE, JAMES NICHOLASON.....	(Mhtn) New York City
DAVIS, IRVING J.....	(Mhtn) New York City
EHRET, LOUIS JOHN.....	(Mhtn) New York City
Hamilton College, Ph.B., 1904.	

FELTER, RUTHERFORD S.....	Haverstraw, N. Y.
HOLBERT, HARRY HURD.....	(Br) New York City
HOUSE, ELLIOT CAMPBELL.....	Lake Mahopac, N. Y.
KINCAID, MURTLAND.....	(Mhtn) New York City
KIRK, WILLIAM PARKER.....	(Mhtn) New York City
LEFFERTS, MARSHALL CLIFFORD.....	(Mhtn) New York City
NEGUS, JOHN CLEMENT.....	(Bklyn) New York City
PECK, JOHN ARZA, JR.....	Pelham Manor, N. Y.
POST, HENRY B.....	(Mhtn) New York City
STARBUCK, WILLIAM LENT.....	(Mhtn) New York City
STIX, LAWRENCE CULLMAN.....	(Mhtn) New York City
SWARTWOUT, EVERETT W.....	Scarsdale, N. Y.
WIEHLE, ALVIN LOUIS VIRGIL.....	Wiehle, Va.
WILCOX, PHILIP WAKEMAN.....	(Mhtn) New York City

## CHEMISTRY

ALEXANDER, ELLIOT RITCHIE.....	(Bklyn) New York City
AMEND, CARL GUSTAVE.....	(Mhtn) New York City
BOISSE, PIERRE SETH.....	(Mhtn) New York City
FIEDLER, ALBERT.....	(Bklyn) New York City
HALLOCK, FREDERICK BARTON.....	(Mhtn) New York City
HAMMERSCHLAG, HENRY ADOLPH.....	Newark, N. J.
HERZFELD, MELVIN G.....	(Mhtn) New York City
HUDSON, HANS KIERSTEDE.....	(Mhtn) New York City
JEAL, EDUARD RAYNOR.....	Lawrence, L. I.
KELLER, WILLIAM B., JR.....	(Mhtn) New York City
KENDALL, EDWARD CALVIN.....	South Norwalk, Conn.
KYTE, JOHN HERBERT.....	Fanwood, N. J.
TUCKER, RALPH BERNARD.....	Rahway, N. J.
WHIPPLE, DAVIS.....	(Mhtn) New York City
College of Pharmacy, New York City, Ph.G., 1901.	

WINSLOW, WILLIAM SPRAGUE.....	(Mhtn) New York City
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## FIRST YEAR—CLASS OF 1908

Mining Engineering.....	47
Civil “.....	29
Electrical “.....	42
Mechanical “.....	22
Chemistry.....	15
Total.....	155

## SPECIAL STUDENTS

*(a) Unclassified Candidates for a Degree*

AICHER, FRANK ALBERT.....	Denver, Colo.
ARMSTEAD, DANIEL MACPHERSON.....	(Mhtn) New York City
COLLINS, FRANCIS WINFIELD.....	Denver, Colo.
Colorado Agricultural College, B.S., 1904.	

ELDRIDGE, GUY SUNDERLIN.....	Salt Lake City, Utah
FRASER, ALEXANDER JOHN.....	(Br) New York City
HAND, RICHARDSON.....	Wilkesbarre, Pa.
Lafayette College, C.E., 1904.	

RIDDLE, GEORGE WILLIAM.....	Saranac Lake, N. Y.
RIGGS, FRANCIS BEHN.....	(Mhtn) New York City
SEYMOUR, HAROLD FREEMAN.....	Norwalk, Conn.
SHERRON, GEORGE AUSTIN.....	(Mhtn) New York City
UPDIKE, DAVID MONTGOMERY.....	(Mhtn) New York City
WARNER, ARTHUR HOBART.....	St. Paul, Minn.
Harvard University, A.B., 1903.	

Unclassified Candidates for a Degree ..... 12

*(b) Irregular Students*

ARNOLD, HARRY CUTLER.....	(Mhtn) New York City
BARNES, ROLAND L.....	Montclair, N. J.
CHIPLEY, DUDLEY.....	Pensacola, Florida
Alabama Polytechnic Institute, B.S.	

HAUCK, HENRY KINSEY.....	Easton, Pa.
HOOVEN, ARTHUR TILLSON.....	Scranton, Pa.
IYENGAR, SRIRANGAM D. S.....	Bangalore, Mysore, India
Madras University, A.B., 1897	

KOKEN, WILLIAM THEODORE.....	St. Louis, Mo.
MCCABE, EDWARD HENRY.....	(Mhtn) New York City
Delaware College, A.B., 1899.	

MORRIS, DAVID AUBREY.....	Chicago, Ill.
MORRIS, HOWARD IRVING.....	(Bklyn) New York City
MULLEN, CHARLES RAPHAEL.....	Shamokin, Pa.
NICHOLS, EDWARD AVERY.....	Tarrytown, N. Y.
SALANT, WILLIAM.....	(Mhtn) New York City
Cornell University, B.S., 1885; Columbia University, M.D., 1889.	

TICE, WILLIAM GRIFFITH.....	Jersey City, N. J.
VAN SUETENDAEI, ACHILLE O.....	Yonkers, N. Y.
Cooper Union, B.S.	

WHITEWELL, CUTLER BONESTELL.....	Tucson, Arizona
YUNG, BARTLETT G.....	(Mhtn) New York City
Yale University, A.B.	

Irregular Students..... 17

## SUMMARY

## UNDERGRADUATE STUDENTS

	First Year	Second Year	Third Year	Fourth Year	Totals
SCHOOL OF MINES:					
Mining Engineering.....	47	49	59	37	192
Metallurgy.....	1	1	3	1	5
SCHOOL OF CHEMISTRY.....	15	11	7	2	35
SCHOOL OF ENGINEERING:					
Civil Engineering.....	29	38	25	16	108
Electrical Engineering.....	42	39	34	19	134
Mechanical Engineering.....	22	28	25	10	85
	155	166	153	85	559

Unclassified Candidates for a Degree..... 12

Irregular Students ..... 17

29

STUDENTS PRIMARILY REGISTERED UNDER THIS FACULTY..... 588

STUDENTS FROM OTHER FACULTIES OF THE UNIVERSITY:

From the College..... 14

TOTAL..... 602

## SCHOOL OF ARCHITECTURE

### Officers

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President of the University*  
ALFRED D. F. HAMLIN, A.M. . . . . *Professor of Architectural History*  
FRANK DEMPSTER SHERMAN, Ph.B. . . . . *Professor of Graphics*  
MAXIMILIAN K. KRESS, A.M. . . . . *Adjunct Professor of Architecture*  
GRENVILLE T. SNELLING, S.B. . . *Instructor in Architectural Engineering*  
CHARLES A. HARRIMAN . . . . . *Instructor in Architectural Drawing*  
CHARLES P. WARREN, A.M. . . . . *Tutor in Architectural Construction*  
ALFRED H. GUMAER, B.S. . . . . *Instructor in Architectural Design*  
WALTER A. DELANO, A.B. . . . . *Tutor in Architectural Design*  
EDWARD R. SMITH, A.B. . . . *Curator of the Avery Architectural Library*

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WILLIAM R. WARE, LL.D. . . . . *Emeritus Professor of Architecture*

### GENERAL STATEMENT

The School of Architecture, formerly under the Faculty of Applied Science, has now been set apart as an independent school, under the direct administrative control of the President of the University, who represents it in the University Council. The By-Laws of the Faculty of Applied Science, and the regulations for matriculation, enrolment, and registration of that Faculty, will, however, still remain in force, as well as the regulations for higher degrees, as set forth in the statement of that Faculty (pp. 290-291).

The School of Architecture offers a course of indeterminate length, leading to the degree of Bachelor of Science, and designed to qualify its graduates for the active practice of the profession of architecture. Students of exceptional ability may complete it in less than four years; while others may find it advisable to devote a longer period to it. For the sake of convenience, the curriculum is presented in tabular view on page 319 as laid out for a four years' course. The instruction given comprises the history of architecture and decorative design; the graphics of design, including the freehand and architectural drawing and the descriptive geometry required by the trained practitioner; exercises in original architectural and decorative design, the mathematics and engineering of architecture, and architectural practice, including the study of building materials, practical construction,



specifications, and office practice. These courses are supplemented by exercises in reading French and German text-books of architectural history, and by written exercises in historical research and in the analysis and criticism of buildings. Students who have completed the courses assigned to the first three years in the tabular view on page 319 may elect a specialized course in Advanced Architectural Engineering and Practice in place of the usual course in Advanced Design. This is arranged by conference with the Professor of Architecture and the Professor of Civil Engineering of the Faculty of Applied Science. Opportunities for advanced study both in design and in construction are afforded to graduates and qualified special students in the School itself, and for study abroad by the Columbia, McKim, and Perkins Travelling Fellowships, which are open to graduates only.

### Admission

Candidates for admission to the first year must be at least eighteen years of age. They are required to pass the examinations in Mathematics, Physics, Chemistry, Drawing, History, English, German, and either French, Spanish, or Latin, prescribed for admission to the Schools of Applied Science (see p. 287). These examinations are held in June and in September. The Regents' Academic Diploma and the certificates of universities and colleges in good standing are accepted in lieu of examination for the subjects which they specifically cover.

Women are not admitted.

### Special Students and Auditors

Any applicant of mature age who is qualified to do so may as a special student pursue any of the studies taught in the School. Graduates of schools of science, and draughtsmen in offices who have had three or four years' practical experience, are generally qualified to enter the courses in history and design. They must give evidence of proficiency in architectural drawing, including the five orders, and if deficient, will have to attend the instruction given in this subject before joining the classes in design. They are received for the whole year or for periods of two months at a time. Only those who have given themselves to mathematical and engineering studies will be competent to enter the courses in scientific construction.

All such students may become candidates for a degree by passing the required examinations, and graduate students may prepare themselves to take a higher degree by entering one of the post-graduate courses as special students, and may do the work partly in one year and partly in another as may be convenient.

Male students of painting, sculpture, architecture, and decorative design, from any incorporated school of art in New York City, may be admitted as auditors to the courses in Elements of Architecture, Projections and Shades and Shadows, Perspective, History of Archi-

ture, and History of Ornament (Courses 1, 2, 3, 4, 5, 6, 8, 10, 11, and 12) (see list upon pages 70-71), upon payment of a fee of \$15 per course. They may take the courses in Drawing and Design upon payment of the draughting-room fee of \$25. Auditors are not entitled to examination nor to candidacy for degrees.

Undergraduates in Columbia College may elect certain studies in the first- and second-year courses of this School; thereby shortening the duration of their professional studies. Candidates for the degree of Master of Arts may select approved courses in this School either as major or minor subjects.

### Degrees

The course in architecture leads to the degree of Bachelor of Science. Men who already hold a Bachelor's degree from a recognized institution may be candidates for the degrees of Master of Arts and Doctor of Philosophy.

Degrees are not conferred upon special students.

### Equipment

The equipment of the School consists of about 16,000 photographs and 800 books, chiefly the gift of Mr. F. A. Schermerhorn; a classified library of prints and plates; the Avery Architectural Library of over 17,500 volumes; a collection of manuscript drawings from the Ecole des Beaux-Arts; about 9000 lantern slides of architectural subjects; a collection of casts of architectural details from ancient and modern Roman buildings, the gift of Mr. Charles F. KcKim; and an architectural museum containing a collection of models, building stones, tools, and materials. The Avery Library and, under certain restrictions, the collections of the School are accessible every evening. The Willard collection of architectural casts at the Metropolitan Museum is open to students every day and two evenings in the week.

For further particulars see the *Announcement of Courses in the Fine Arts* and the *Bulletin of General Information* of the Schools of Applied Science.

## COURSE IN ARCHITECTURE

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Architecture 1	Architecture 2	Architecture 3	Architecture 8.4
Architecture 4	Architecture 5	Architecture 6	Architecture 9.4
Architecture 7.1	Architecture 7.2	Architecture 8.3 (1st term)	Architecture 21.4
Architecture 10 (1st term)	Architecture 8.1 (1st term)	Architecture 8.3 (2d term)	Architecture 23.4
Architecture 11 (2d term)	Architecture 8.2 (2d term)	Architecture 9.3	<sup>2</sup> Architecture 13.3
Architecture 20	Architecture 9.2	Architecture 13.1	<sup>2</sup> Architecture 14.6
Architecture 21.1	Architecture 12	Architecture 13.2	Thesis
Architecture 22	Architecture 14.3 <sup>1</sup>	Architecture 14.5	
Architecture 23.1	Architecture 14.4 <sup>1</sup>	Architecture 21.3	
Mathematics 3a	Architecture 21.2	Architecture 23.3	
Mathematics 3b	Architecture 23.2		
Mathematics 5			

<sup>1</sup> After 1904-05 these subjects will be given under the Faculty of Applied Science<sup>2</sup> Engineering and Practice. See pp. 71-72

## REGISTER OF STUDENTS

### School of Architecture

#### FOURTH YEAR—CLASS OF 1905

BOTTOMLEY, WILLIAM LAWRENCE.....	(Mhtn) New York City
BROWN, BEDFORD.....	Washington, D. C.
BUTTERFIELD, WILLIAM HAROLD.....	East Orange, N. J.
ESSELBORN, CARL ADOLPH.....	(Br) New York City
JONES, THEODORE MAXWELL.....	(Mhtn) New York City
KEDIAN, WALTER MARTIN.....	(Mhtn) New York City
MACDONALD, ANGUS SNEAD.....	Louisville, Ky.
SCOTT, FITZHUGH.....	Milwaukee, Wis.
VIGOUROUX, GUSTAVE GEORGE.....	(Mhtn) New York City
Fourth Year—Class of 1905.....	9

#### THIRD YEAR—CLASS OF 1906

COLIE, DAYTON.....	East Orange, N. J.
Columbia University, A.B., 1903.....	
FELDMANN, LEO MAURICE.....	Cincinnati, Ohio
FRANCIS, WILLIAM CARSON.....	Buffalo, N. Y.
HALL, EDWARD CLINTON.....	Plainfield, N. J.
KLABER, EUGENE HENRY.....	(Mhtn) New York City
KLENKE, JOHN HENRY, JR.....	(Mhtn) New York City
LOVELESS, ARTHUR LAMONT.....	Big Rapids, Mich.
LUITHLEN, WILLIAM.....	(Bklyn) New York City
MCLAUGHLIN, THOMAS DURELLE.....	Lima, O.
OBERLANDER, HENRY CHARLES.....	(Mhtn) New York City
SEE, EDMUND THORP.....	(Mhtn) New York City
SEYMOUR, ALEXANDER DUNCAN, JR.....	(Bklyn) New York City
SMALBY, HAROLD LEIGH.....	Plainfield, N. J.
STINSON, JOSEPH WHITTLA.....	(Mhtn) New York City
TEMPLE, HARRY KLINE.....	North Adams, Mass.
WALLS, FRANKLIN JASPER.....	Albany, N. Y.
Third Year—Class of 1906.....	16

#### SECOND YEAR—CLASS OF 1907

ALBERTSON, WILBUR NICHOLAS.....	East Orange, N. J.
ANDREWS, THEODORE.....	Albany, N. Y.
Yale University, A.B., 1903.....	
BERNSTEIN, CHARLES DAVID.....	(Mhtn) New York City
BISSELL, CYRUS YALE.....	Jersey City, N. J.
BROWN, FLOYD DE LATOUR.....	(Mhtn) New York City
BULLARD, ROGER HARRINGTON.....	(Q) New York City
CROCKER, ROBERT STEWART.....	(Mhtn) New York City
Princeton University, A.B., 1904.....	
DIETERLEN, CHARLES T. E.....	(Br) New York City
HUGHES, HARRY DRUM.....	Cleveland, O.



- KAHLE, HERMAN.....(R) New York City  
 KAHN, ELY JACQUES.....(Mhtn) New York City  
     Columbia University, A.B., 1903.  
 KOBBÉ, HERMAN.....(R) New York City  
 MAYER, MACDONALD.....(Bklyn) New York City  
 MORRIS, JOHN BABCOCK, Jr.....Saugatuck, Conn.  
 PALLISER, GEORGE ARTHUR.....(Bklyn) New York City  
 PITT, GERARD.....New Rochelle, N. Y.  
 ROBINSON, BEVERLEY.....(Br) New York City  
 STORK, EDWARD JOHN.....Jersey City, N. J.  
 SWEEZY, LARREMORE VAN VELSON.....(Mhtn) New York City  
     Second Year—Class of 1907..... 19

## FIRST YEAR—CLASS OF 1908

- BERG, ARMAND VICTOR.....Savannah, Ga.  
 BROPHY, PAUL FITZ GERALD.....(R) New York City  
 CARR, KENNETH S.....(Mhtn) New York City  
     College of the City of New York, A.B., 1904.  
 DANGLER, HENRY CORWITH.....Cleveland, Ohio  
     Yale University, A.B., 1904.  
 EBERHARD, VICTOR EMANUEL.....Norfolk, Va.  
 FRIEDLAND, ANATOL ABRAHAM.....(Mhtn) New York City  
 KINGSLEY, DONALD MORSE.....(R) New York City  
 KOHLMAN, NATHAN.....Brookhaven, Miss.  
 LIVINGSTON, CHESTER GILBERT.....Huntington, Ind.  
     Oberlin College, A.B., 1904.  
 PORTER, ARTHUR KINGSLEY.....Stamford, Conn.  
     Yale University, A.B., 1904.  
 SAFIER, ISADORE.....Newark, N. J.  
 SCHNEIDER, GUSTAV BILLING.....Perth Amboy, N. J.  
 WADELTON, THOMAS DORRINGTON, Jr.....(Br) New York City  
     First Year—Class of 1908..... 13

## SPECIAL STUDENTS

- BASTIAN, JOHN.....Newburgh, N. Y.  
 COCKEY, CHARLES ROGERS.....(Mhtn) New York City  
 GREEN, EDWARD LYLE.....London, Canada  
 HOPKINS, ALBERT HART.....Buffalo, N. Y.  
 INGLE, FRANK ROBERTS.....Evansville, Ind.  
 JOHNSON, FOLGER.....Montclair, N. J.  
 LAMB, WILLIAM FREDERICK.....(Q) New York City  
     Williams College, A.B., 1903.  
 LEVY, EMILE.....New Orleans, La.  
     Tulane University, B.E.  
 MÜLLER, JOHN.....(Bklyn) New York City  
 PRAGER, RAPHAEL.....(Mhtn) New York City  
     College of the City of New York, B.S.  
 SCHAEFER, LUDWIG.....Paterson, N. J.  
 STEFFENS, JOHN FREDERICK.....Cleveland, Ohio  
 STEIN, CLARENCE SAMUEL.....(Mhtn) New York City  
 STUR, ALBERT ABRAHAM.....Buffalo, N. Y.  
 WACHENDORFF, EUGENE CLIFFORD.....Atlanta, Ga.  
     Special Students..... 15

## CANDIDATES FOR THE HIGHER DEGREES

CONGDON, HERBERT WHEATON.....(Bklyn) New York City  
Columbia University, B.S., 1897.

RAY, DAVID H.....(Mhnt) New York City  
College of the City of New York, A.B., 1897.  
Columbia University, B.S., 1901; A.M., 1902.  
New York University, C.E., 1902.

## NOT IN ACTUAL RESIDENCE

*Student on Travelling Fellowship*

VAN WAGENEN, HUBERT, JR.....(Mhnt) New York City  
Columbia University, B.S., 1899.  
Architecture.

Total ..... 3

## SUMMARY

Fourth Year—Class of 1905.....	9
Third Year—Class of 1906.....	16
Second Year—Class of 1907.....	19
First Year—Class of 1908.....	13
Special Students.....	15
Graduate Students.....	<u>3</u>
Total.....	75

## STUDENTS IN MUSIC

(For the announcement of this Department of Music, see page 148.)

### STUDENTS NOT CANDIDATES FOR A DEGREE

BINGHAM, KENNETH FISHER.....	(Mhtn) New York City
BORGWALD, CARL.....	Mt. Vernon, N. Y.
COCKE, MARTHA LOUISE.....	Hollins, Va.
COSTIKYAN, PUZANT HAGOP.....	Mt. Kisco, N. Y.
GOLDMAN, BLANCHE.....	(Mhtn) New York City
GOLDSTEIN, WALTER LOUIS.....	(Mhtn) New York City
GREACEN, ELEANOR MARGUERITE.....	(Mhtn) New York City
GREER, MARY MORRISON.....	(Mhtn) New York City
GREY, ELSIE GEORGIA.....	(Bklyn) New York City
HAAN, HELEN ILONE.....	(Mhtn) New York City
HALL, MARIE FREDERICA.....	(Bklyn) New York City
HERRESHOFF, JEANNETTE BROWN.....	(Mhtn) New York City
HUBBARD, FRANKLIN ARMSTRONG.....	(Q) New York City
KAHN, AUGUSTA.....	(Mhtn) New York City
KEBRY, HAZEL DIMON.....	(Mhtn) New York City
KNOX, ELPREDA ETHEL.....	Hoboken, N. J.
KRAFT, WILLIAM JACOB.....	Mamaroneck, N. Y.
LAMBORD, BENJAMIN FELTON.....	(Mhtn) New York City
MANNING, EDWARD BETTS.....	(Mhtn) New York City
MAY, CHARLES ALFRED.....	(Bklyn) New York City
MOKREJS, JOHN.....	(Mhtn) New York City
NEIDLINGER, WILLIAM.....	(Mhtn) New York City
NELSON, RUTH AUGUSTA.....	(Mhtn) New York City
QUECK-BERNER, CLAIRE LYON.....	(Bklyn) New York City
SINCLAIR, JEAN STUYVESANT.....	(Bklyn) New York City
SLOANE, MARION WALLACE.....	Newark, N. J.
SMITH, ETHEL NATHALIE.....	(Mhtn) New York City
THOMPSON, HARRIET REED.....	Belmont, Calif.
ULANOV, NATHAN.....	(Mhtn) New York City
VAN NEST, MARY VANDERPOOL.....	(Mhtn) New York City
WALLACE, LESLIE ELLA.....	(Mhtn) New York City
WARD, FRANK EDWIN.....	Rye, N. Y.
WITTGENSTEIN, VICTOR HUGO.....	(Mhtn) New York City
ZEHE, EMMA J.....	(Bklyn) New York City
Total.....	34

### CANDIDATES FOR HIGHER DEGREES

DUNN, JAMES PHILIP.....	(Br) New York City
College of the City of New York, A.B., 1903.	
<i>Music, English, Education.</i>	
GILBERT, CHARLES A.....	Madison, N. J.
Ohio Wesleyan University, A.B., 1900; A.M., 1903.	
Drew Theological Seminary, B.D., 1903.	
<i>Music, Philosophy.</i>	
Total.....	2

### SUMMARY

Students not candidates for a degree.....	34
Candidates for higher degrees.....	2
Total.....	36

## FACULTY OF POLITICAL SCIENCE

ESTABLISHED 1880

### Officers of the Faculty

JOHN W. BURGESS, Ph.D., LL.D. . . . . *Dean (term expires 1905)*  
*and ex-officio Member of the University Council*  
 HENRY ROGERS SEAGER, Ph.D. . . . . *Secretary*  
 MUNROE SMITH, J.U.D., LL.D. . . . . *Elected Delegate to the University*  
*Council*

### The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*  
 JOHN W. BURGESS, Ph.D., LL.D. . . . . *Ruggles Professor of Political*  
*Science and Constitutional Law*  
 MUNROE SMITH, J.U.D., LL.D. . . . . *Professor of Roman Law and*  
*Comparative Jurisprudence*  
 FRANK J. GOODNOW, LL.D. . . . . *Eaton Professor of Administrative Law*  
*and Municipal Science*  
 EDWIN R. A. SELIGMAN, Ph.D., LL.D. . . . . *McVickar Professor of*  
*Political Economy*  
 HERBERT L. OSGOOD, Ph.D. . . . . *Professor of History*  
 JOHN BASSETT MOORE, LL.D. . . . . *Hamilton Fish Professor of*  
*International Law and Diplomacy*  
 WILLIAM A. DUNNING, Ph.D., LL.D. . . . . *Lieber Professor of History*  
*and Political Philosophy*  
 FRANKLIN H. GIDDINGS, Ph.D., LL.D. . . . . *Professor of Sociology*  
 JOHN B. CLARK, Ph.D., LL.D. . . . . *Professor of Political Economy*  
 JAMES HARVEY ROBINSON, Ph.D. . . . . *Professor of History*  
 WILLIAM M. SLOANE, Ph.D., L.H.D., LL.D. . . . . *Seth Low Professor of*  
*History*  
 HENRY R. SEAGER, Ph.D. . . . . *Adjunct Professor of Political Economy*  
 HENRY L. MOORE, Ph.D. . . . . *Adjunct Professor of Political Economy*

### Other Officers

WILLIAM R. SHEPHERD, Ph.D. . . . . *Instructor in History*  
 JAMES T. SHOTWELL, Ph.D. . . . . *Instructor in History*  
 GEORGE W. BOTSFORD, Ph.D. . . . . *Instructor in History*



ALVIN S. JOHNSON, Ph.D. . . . . *Instructor in Economics and Social Science*  
 GEORGE JAMES BAYLES, Ph.D. . . . . *Lecturer in Ecclesiology*  
 CHARLES AUSTIN BEARD, Ph.D. . . . . *Lecturer in History*

## GENERAL STATEMENT

The Faculty of Political Science has charge of the university courses of instruction and research in political and social science, including history, economics, public law, and comparative jurisprudence.

The School of Political Science was opened on Monday, the fourth day of October, 1880.

It is the purpose of the School to give a complete general view of all the subjects of public polity, both internal and external, from the threefold point of view of history, law, and philosophy. The prime aim is, therefore, the development of all the branches of the political and social sciences. The secondary and practical objects are:

- (a) To fit young men for the public service.
- (b) To give an adequate economic and legal training to those who intend to make journalism their profession.
- (c) To supplement, by courses in public law and comparative jurisprudence, the instruction in private municipal law offered by the Faculty of Law.
- (d) To educate teachers of history, economics, social science, public law, and jurisprudence.

Young men who wish to obtain positions in the United States civil service—especially in those positions for which special examinations are held—will find it advantageous to follow many of the courses under the Faculty of Political Science, especially the courses on political history, diplomatic history, and international law, government (including the governmental organization of the territories and dependencies of the United States), statistics, finance, and administration. Candidates for appointment in the administrative service of our dependencies may obtain adequate preparation by adding to the general courses on public law and on political economy and finance the special courses now offered in the School of Political Science on colonial history and administration, colonial economics, and Spanish civil law; and the courses on the Spanish language and literature offered in the College and the School of Philosophy.

The work in economics and sociology falls under three heads, viz.: the university courses of instruction in the various departments of economics and social science, the work in the statistical laboratory, and the "field-work," or practical work in connection with the visitation of the more important departments and philanthropic institutions of New York City. These are fully explained in the detailed *Announcement of the Courses in History, Economics, and Public Law*.

### ADMISSION AND ATTENDANCE

Every student is required to file a list of his studies for the academic year at the time he registers, or within one week thereafter, at the office of the Registrar. If he subsequently wishes to make any change in his studies he must file written notice of his wish at the Dean's office, and must obtain the assent of the Dean.

Immediate written notice must be given to the Registrar of any change of address.

Admission to the School of Political Science does not imply admission to candidacy for a degree. The conditions of candidacy for the several degrees are given below.

Women who hold a baccalaureate degree are admitted to the School of Political Science as students in history and economics and may become candidates for the higher degrees.

### ADMISSION TO OTHER COURSES

Any duly matriculated university student is at liberty to combine, without any additional fee, courses of study and investigation under this Faculty with courses offered by other Faculties of the University, and with courses offered in the College.

### FEEES

(See page 23)

### CANDIDATES FOR A DEGREE

Students are received as candidates for the degree of Master of Arts, Master of Laws, or Doctor of Philosophy.

If the applicant is a candidate for a degree, he must file a certificate furnishing evidence of his completion of the junior year of a college, or, if he holds a degree from any institution, he must file diplomas or certificates sufficient to furnish evidence of such degree or degrees. Blanks for this purpose may be secured at the office of the Registrar. Certificates of graduation from or attendance on institutions of learning in foreign countries are also accepted. The certificates should be accompanied by catalogues or calendars of the colleges or other institutions of advanced grade at which the student has previously studied, which must be marked so as to show clearly his course of study there. This condition may be dispensed with in the case of those colleges and institutions whose bachelor's degree is recognized by the University Council as a basis for the higher degrees.

Students may present themselves for examination for the degree of Ph.D. at any time during the year, whenever the requirements shall have been complied with. For these requirements see pages 209-214.

## COURSES OF INSTRUCTION

For the courses offered in 1904-05 (and for information as to which of these courses are open to seniors in the College, and which to women), see statement under groups of subjects, as follows:

**Economics and Social Science**, page 94.

**History and Political Philosophy**, page 118.

**Public Law and Comparative Jurisprudence**, page 127.

For more detailed accounts of the courses and for the tender of 1905-06, application should be made for the *Announcement of the Courses in History, Economics, and Public Law*.

## Seminars

Outside of the regular instruction in the various subjects by lecture, it is the practice to furnish the students of the School an opportunity for special investigation of historical, legal, economic, and social questions under the direction of the professors. This is done by means of original papers prepared by the students. The papers are read before the professor and the students, and are then criticised and discussed. There will be at least one seminar in each subject. The number of meetings and the topics to be discussed are determined each year. Attendance at the seminar in the major subject is necessary on the part of candidates for the degree of Master of Arts or Doctor of Philosophy.

## FACULTY OF PHILOSOPHY

ESTABLISHED 1890

### Officers of the Faculty

EDWARD DELAVAN PERRY, Ph.D., LL.D.... *Dean (term expires 1905)*  
*and ex-officio Member of the University Council*  
 GEORGE RICE CARPENTER, A.B..... *Secretary*  
 WILLIAM HENRY CARPENTER, Ph.D.. *Elected Delegate to the University*  
*Council*

### The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D..... *President*  
 RICHARD JAMES HORATIO GOTTHEIL, Ph.D.... *Professor of Rabbinical*  
*Literature and the Semitic Languages*  
 HARRY THURSTON PECK, Ph.D., L.H.D., LL.D... *Anthon Professor of*  
*the Latin Language and Literature*  
 WILLIAM HENRY CARPENTER, Ph.D.... *Villard Professor of Germanic*  
*Philology*  
 JAMES McKEEN CATTELL, Ph.D..... *Professor of Psychology*  
 EDWARD DELAVAN PERRY, Ph.D., LL.D..... *Jay Professor of Greek*  
 ABRAHAM VALENTINE WILLIAMS JACKSON, Ph.D., L.H.D., LL.D. *Pro-*  
*fessor of the Indo-Iranian Languages*  
 ADOLPHE COHN, LL.B., A.M..... *Professor of the Romance Languages*  
*and Literatures*  
 BRANDER MATTHEWS, Litt.D., D.C.L., LL.D.... *Professor of Dramatic*  
*Literature*  
 FRANKLIN T. BAKER, A.M..... *Professor of the English Language and*  
*Literature*  
 HENRY ALFRED TODD, Ph.D..... *Professor of Romance Philology*  
 GEORGE RICE CARPENTER, A.B..... *Professor of Rhetoric and English*  
*Composition*  
 JAMES RIGNALL WHEELER, Ph.D..... *Professor of Greek*  
 JAMES CHIDESTER EGBERT, Ph.D..... *Professor of Roman Archæology*  
*and Epigraphy*  
 CALVIN THOMAS, A.M., LL.D..... *Gebhard Professor of the Germanic*  
*Languages and Literatures*  
 JAMES EARL RUSSELL, Ph.D., LL.D... *Barnard Professor of Education*  
 FRANK MORTON MCMURRY, Ph.D..... *Professor of the Theory and*  
*Practice of Teaching*



PAUL MONROE, Ph.D.....	<i>Professor of the History of Education</i>
CARLO LEONARDO SPERANZA, B. ès L., A.M.....	<i>Professor of Italian</i>
FRANZ BOAS, Ph.D.....	<i>Professor of Anthropology</i>
SAMUEL TRAIN DUTTON, A.M.....	<i>Professor of School Administration</i>
WILLIAM PETERFIELD TRENT, M.A., LL.D.	<i>Professor of English Literature</i>
MORTIMER LAMSON EARLE, Ph.D.....	<i>Professor of Classical Philology</i>
NELSON GLENN MCCREA, Ph.D.....	<i>Professor of Latin</i>
GONZALEZ LODGE, Ph.D., LL.D.....	<i>Professor of Latin and Greek</i>
CLARENCE HOFFMAN YOUNG, Ph.D.....	<i>Adjunct Professor of Greek</i>
LIVINGSTON FARRAND, A.M., M.D.....	<i>Professor of Anthropology</i>
EDWARD LEE THORNDIKE, Ph.D.....	<i>Professor of Genetic Psychology</i>
CHARLES KNAPP, Ph.D.....	<i>Adjunct Professor of Classical Philology</i>
JOHN DYNELEY PRINCE, Ph.D.....	<i>Professor of the Semitic Languages</i>
FREDERICK J. E. WOODBRIDGE, A.M., LL.D.	<i>Johnsonian Professor of Philosophy</i>
FRIEDRICH HIRTH, Ph.D.....	<i>Dean Lung Professor of Chinese</i>
FELIX ADLER, Ph.D.....	<i>Professor of Social and Political Ethics</i>
JULIUS SACHS, Ph.D.....	<i>Professor of Secondary Education</i>
CHARLES A. STRONG, A.B.....	<i>Professor of Psychology</i>
MARSHALL H. SAVILLE.....	<i>Loubat Professor of American Archæology</i>
JOEL ELIAS SPINGARN, Ph.D.....	<i>Adjunct Professor of Comparative Literature</i>
GEORGE N. OLCOTT, Ph.D.....	<i>Adjunct Professor of Latin</i>
GEORGE STUART FULLERTON, Ph.D.....	<i>Professor of Philosophy</i>
WILLIAM ALLAN NEILSON, Ph.D.....	<i>Adjunct Professor of English</i>
JEFFERSON B. FLETCHER, A.M.....	<i>Professor of Comparative Literature</i>
JOHN DEWEY, Ph.D., LL.D.....	<i>Professor of Philosophy</i>

### GENERAL STATEMENT

The Faculty of Philosophy has charge of the university courses of instruction and research in philosophy, psychology, education, anthropology, philology, and letters. Any duly matriculated university student is at liberty to combine courses of study and investigation under this Faculty with courses offered by the Faculties of Law, Medicine, Political Science, Pure Science, and Applied Science.

Students are received either as candidates for the degrees of Master of Arts and Doctor of Philosophy, or to pursue special or partial courses. Some courses of lectures are open to the public, men and women alike, on payment of an auditor's fee. For the regulations as to auditors see page 22.

Students enrolled in any one of the theological seminaries mentioned on page 57, who may be designated for the privilege by the authorities of those institutions, and accepted by the President of Columbia University, are admitted to the courses offered by the Faculty of Philosophy free of any charge for tuition.

Students enrolled in the Art Schools of the Metropolitan Museum of

Art, who may be designated for the privilege by the authorities of those schools, and accepted by the President of Columbia University, are permitted to attend the courses of lectures on archæology and æsthetics free of any charge for tuition.

All of these institutions offer reciprocal privileges to students of Columbia University.

#### ADMISSION AND ATTENDANCE

Candidates for the degrees of Master of Arts and Doctor of Philosophy must hold a bachelor's degree in arts, letters, philosophy, or science, or an engineering degree, or have had an education fully equivalent to that represented by one of those degrees, such equivalent to be passed upon in every case by the Standing Committee on Higher Degrees. They must remain in residence for not less than one and two years, respectively. They are required to pursue courses of study and research in one major and two minor subjects, the number of hours of attendance per week being adjusted to the needs and demands of the individual student. University residence of not less than three years is usually necessary in order to obtain the degree of Doctor of Philosophy.

In the Faculty of Philosophy admission as a regular student or as a candidate for the degree of Master of Arts does not admit to candidacy for the degree of Doctor of Philosophy. Only those students are admitted to candidacy for the degree of Doctor of Philosophy who

1. Are recommended for such candidacy by the heads of the departments in which their major and minor subjects of study lie;
2. Are certified as to their ability to read French and German by the heads of those departments;
3. Are certified as to their ability to read Latin by the head of that department; provided that students whose major subject is psychology, anthropology, or education, shall not be required to meet this test when it is certified by the professor in charge of their major subject that an ability to read Latin is not necessary for the proper prosecution of their researches.

When a student is admitted to candidacy for the degree of Doctor of Philosophy, he may be credited with his past period of university residence, at Columbia, or elsewhere, or with so much thereof as may be determined by the Dean and the professor in charge of the candidate's major subject.

Students who are not actually candidates for a degree are admitted to any courses which they are found competent to undertake. Such students must, however, possess the qualifications for admission named above.

There are no examinations for admission, either as candidates for a degree or as special students. Students are admitted at any time during the year, and may present themselves for examination for a degree whenever the requirements as to residence and an essay or dissertation have been complied with.

For fees see page 23.

For a detailed statement of the regulations governing the degree of A.M. and Ph.D. see pages 209-214.

### COURSES OF STUDY AND RESEARCH

For the courses offered for 1904-05, see departmental statements as follows:

Anthropology, page 69.

Philosophy and Psychology, page 163.

Greek (including Archæology and Epigraphy), page 115.

Latin (including Epigraphy and Roman Archæology), page 122.

English, page 105.

Comparative Literature, page 92.

Education, page 97.

Germanic Languages, page 110.

Romance Languages:

French, page 180.

Italian, page 182.

Spanish, page 182.

Romance Philology, page 182.

Oriental Languages:

Semitic, page 154.

Indo-Iranian, page 152.

Chinese, page 151.

Science of Language, page 154.

#### *Courses at the Union Theological Seminary*

New Testament Greek, page 117.

Ethics, page 166.

Philosophy of Religion, page 166.

For the courses to be offered for 1905-06, application should be made for the *Announcement of the Schools of Philosophy, Political Science, and Pure Science*, and for the divisional *Announcements of Classical Philology, Modern Languages and Literatures, Oriental Languages, Philosophy, Psychology, and Anthropology*, and of Teachers College, published in the spring of 1905.

## FACULTY OF PURE SCIENCE

ESTABLISHED 1892

### Officers of the Faculty

ROBERT S. WOODWARD, Ph.D., LL.D. . . . . *Dean (term expires 1905)*  
*and ex-officio Member of the University Council*  
 WILLIAM HALLOCK, Ph.D. . . . . *Secretary*  
 JAMES F. KEMP, A.B., E.M. . . . . *Elected Delegate to the University*  
*Council*

### The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*

J. HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D. . . . . *Professor of*  
*Mathematics*

CHARLES F. CHANDLER, M.D., Ph.D., LL.D., Sc.D. . . *Mitchill Professor*  
*of Chemistry*

HENRY S. MUNROE, E.M., Ph.D., Sc.D. . . . . *Professor of Mining*  
 FREDERICK R. HUTTON, E.M., Ph.D., Sc.D. . . *Professor of Mechanical*  
*Engineering*

JOHN K. REES, E.M., Ph.D. . . *Rutherford Professor of Astronomy, and*  
*Director of the Observatory*

JOHN G. CURTIS, M.D., LL.D. . . . . *Professor of Physiology*  
 JOHN FRANCIS WOODHULL, Ph.D. . . . *Professor of Physical Science in*  
*Teachers College*

ALFRED J. MOSES, E.M., Ph.D. . . . . *Professor of Mineralogy*  
 GEORGE S. HUNTINGTON, M.D., Sc.D. . . . . *Professor of Anatomy*  
 HENRY FAIRFIELD OSBORN, Sc.D., LL.D. . . . *Da Costa Professor of*  
*Zoölogy*

EDMUND B. WILSON, Ph.D., LL.D. . . . . *Professor of Zoölogy*  
 JAMES F. KEMP, A.B., E.M. . . . . *Professor of Geology*  
 WILLIAM HALLOCK, Ph.D. . . . . *Professor of Physics*  
 FRANCIS B. CROCKER, E.M., Ph.D. . . *Professor of Electrical Engineering*  
 MICHAEL I. PUPIN, Ph.D., Sc.D. . . . . *Professor of Electro-Mechanics*  
 T. MITCHELL PRUDDEN, M.D., LL.D. . . . . *Professor of Pathology*  
 WILLIAM H. BURR, C.E. . . . . *Professor of Civil Engineering*  
 ROBERT S. WOODWARD, Ph.D., LL.D. . . . *Professor of Mechanics*  
*and Mathematical Physics*

THOMAS SCOTT FISKE, Ph.D. . . . . *Professor of Mathematics*



HAROLD JACOBY, Ph.D.....	<i>Professor of Astronomy</i>
FRANK N. COLE, Ph.D.....	<i>Professor of Mathematics</i>
FREDERIC S. LEE, Ph.D.....	<i>Professor of Physiology</i>
RICHARD ELWOOD DODGE, A.M....	<i>Professor of Geography in Teachers College</i>
BASHFORD DEAN, Ph.D.....	<i>Professor of Vertebrate Zoölogy</i>
LUCIEN MARCUS UNDERWOOD, Ph.D.....	<i>Torrey Professor of Botany</i>
HENRY M. HOWE, A.M., B.S.....	<i>Professor of Metallurgy</i>
FRANCIS ERNEST LLOYD, A.M....	<i>Adjunct Professor of Biological Science in Teachers College</i>
JAMES MACLAY, C.E., Ph.D.....	<i>Adjunct Professor of Mathematics</i>
EDMUND HOWD MILLER, Ph.D.....	<i>Professor of Analytical Chemistry</i>
MARSTON TAYLOR BOGERT, A.B., Ph.B.....	<i>Professor of Organic Chemistry</i>
J. LIVINGSTON RUTGERS MORGAN, Ph.D.....	<i>Adjunct Professor of Physical Chemistry</i>
HENRY E. CRAMPTON, Ph.D.....	<i>Professor of Zoölogy</i>
DAVID EUGENE SMITH, Ph.D....	<i>Professor of Mathematics in Teachers College</i>
WILLIAM J. GIES, M.S., Ph.D.....	<i>Adjunct Professor of Physiological Chemistry</i>
AMADEUS W. GRABAU, S.D.....	<i>Adjunct Professor of Palæontology</i>
HERBERT MAULE RICHARDS, Sc.D.....	<i>Adjunct Professor of Botany</i>
GARY N. CALKINS, Ph.D.....	<i>Professor of Invertebrate Zoölogy</i>
PHILIP HANSON HISS, Jr., M.D., Ph.D.....	<i>Adjunct Professor of Bacteriology</i>
CASSIUS J. KEYSER, Ph.D.....	<i>Adrain Professor of Mathematics</i>
ERNEST FOX NICHOLS, Sc.D.....	<i>Professor of Experimental Physics</i>
LEA MCILVAINE LUQUER, Ph.D.....	<i>Adjunct Professor of Mineralogy</i>
CHARLES LANE POOR, Ph.D.....	<i>Professor of Astronomy</i>
THOMAS HUNT MORGAN, Ph.D.....	<i>Professor of Experimental Zoölogy</i>
RUSSELL BURTON-OPITZ, M.D.....	<i>Adjunct Professor of Physiology</i>

### GENERAL STATEMENT

The Faculty of Pure Science has charge of the university courses of instruction and research in all branches of pure science, and especially the supervision of candidates for the degrees of Master of Arts and Doctor of Philosophy in pure science. Students under other University Faculties are also at liberty to pursue courses of study and investigation under this Faculty.

Candidates for the higher degrees taking major subjects in pure science will be regarded as under the special jurisdiction of this Faculty.

In the Faculty are represented all the departments of the University which give instruction in pure science.

Graduate students, candidates for the degree of Master of Arts or Doctor of Philosophy, are subject:

1. To the general regulations of the University Council. (See pages 209-214.)
2. To the special regulations of this Faculty.

### Special Regulations of the Faculty of Pure Science

The degree of Doctor of Philosophy is awarded on the basis of a thorough training in the methods of advanced work and investigation in some branch of science. The following statements are offered for the guidance of students. In the case of students of special ability or exceptional previous training, the Faculty may modify its usual regulations.

The student is expected to gain a sound general knowledge of the two minor subjects of his choice. In the major subjects a much more thorough and special knowledge is required, particular importance being attached to training in research. In order to avoid undue specialization, no two subjects may be chosen from the same department without the consent of the Faculty.

One year's study in residence in the University is required for the degree of Master of Arts, and three years' study for the degree of Doctor of Philosophy, at least one year of which shall be in residence. Candidates for either of these degrees are expected to devote at least one half their time throughout their course of study to the major subject. In the case of laboratory courses this implies two days a week, or its equivalent, as determined by each department. Each minor subject is intended to occupy approximately one fourth of the time during one year for the degree of Master of Arts, and during one or two years, according to the nature of the subject and the previous training of the candidate, for the degree of Doctor of Philosophy. It is expected that the third year of study, and in certain cases both the second and the third years, will be wholly devoted to the major subject and to investigation for the dissertation.

The approval of the subject of the essay required for the degree of Master of Arts, or the subject of the dissertation required for the degree of Doctor of Philosophy, as well as the essay or dissertation itself, rests with the instructor in charge of the candidate's major subject. It is desirable that these studies should be related, and, when practicable, that they should be treated respectively as preliminary and completed investigations. Great importance is attached to the character of the final dissertation. While it must depend for acceptance chiefly on the subject-matter, it should show good literary workmanship, especially by directness and clearness of statement. It should demonstrate the author's capacity to do original scientific work, and to render an intelligible account thereof. It should evince a familiarity with the literature of the subject, and with the latest methods of research applicable to it. The treatment should be as concise as the nature of the work permits. Every dissertation

should be preceded by a clear introductory statement setting forth the nature and the scope of the research, and be followed by a *résumé* of the results and the conclusions obtained. It should also be accompanied by a table of contents and by a list of the authorities consulted in its preparation.

### Special Students

Students who are not candidates for a degree may be permitted to pursue such courses from among those offered by this Faculty as they may be found qualified to enter upon. Each applicant must demonstrate his preparation for, and his ability to pursue, the course or courses selected, and of his qualifications the heads of the departments in which he proposes to study shall be the judges. In general these special courses are open only to advanced students.

### COURSES OF STUDY

For the courses offered for 1904-05, see departmental statements as follows:

Anatomy, page 65.  
Astronomy, page 73.  
Bacteriology, page 160  
Botany, page 75.  
Chemistry, page 81.  
Civil Engineering, page 86.  
Electrical Engineering, page 102.  
Geology, page 108.  
Mathematics, page 129.  
Mechanical Engineering, page 132.  
Mechanics, page 138.  
Metallurgy, page 139.  
Mineralogy, page 142.  
Mining, page 144.  
Physics, page 170.  
Physiological Chemistry, page 173.  
Physiology, page 174.  
Zoölogy, page 186.

For more detailed accounts of the courses and for the tender of 1905-06, application should be made for the *Announcement of the Schools of Political Science, Philosophy, and Pure Science*, and for the divisional *Announcements of Biology, of Chemistry, of Geology, Geography, and Mineralogy, of Mathematical and Physical Science*, and of the *Schools of Engineering*, published in the spring of 1905.

## REGISTER OF STUDENTS, 1904-05

### Under the Faculties of Political Science, Philosophy, and Pure Science

NOTE.—(P), signifying "Partial Attendance," following the name of a candidate, indicates that the total hours of attendance for which this student is registered are not sufficient to fulfil the minimum residence requirement for the degree of Master of Arts, in one year, or that for the degree of Doctor of Philosophy in two years.

- AARON, REV. A. (P).....Passaic, N. J.  
Augsburg College, A.B., 1893.  
*American History, European History, Philosophy.*
- ABELSKY, MOSES J.....(Mhtn) New York City  
College of the City of New York, A.B., 1904.  
*Philosophy, Sociology and Statistics, Political Economy and Finance.*
- ABRAMS, LE ROY.....Inglewood, California  
Leland Stanford, Jr., University, A.B., 1899; A.M., 1902.  
*Botany, Geology.*
- ABURATANI, JIROSHICHI.....Tokio, Japan  
Doshisha College, Japan (equiv. A.B.), 1892.  
*Political Economy and Finance, Sociology and Statistics.*
- ALEXANDER, LUTHER HERBERT (P).....Stratford, Canada  
University of Toronto, A.B., 1883; A.M., 1885.  
*Romance.*
- ALLEN, ELIZABETH.....(Bklyn) New York City  
Columbia University, A.B., 1902.  
*Anthropology, Sociology and Statistics, Mathematics.*
- AMANO, LEÜCHI (P).....Shignoki-Ken, Japan  
Donnishia Gakko (equiv. A.B.), 1892.  
*European History, Political Philosophy.*
- ARNOLD, FELIX.....(Mhtn) New York City  
College of the City of New York, A.B., 1898.  
New York University, Pd.D., 1903.  
*Psychology, Philosophy, English.*
- ARNOLD, JAMES LORING (P).....(Mhtn) New York City  
Columbia University, A.B., 1891.  
University of Leipzig, Ph.D., 1897.  
*Electrical Engineering.*
- ARNOLD, WILLIAM CALVIN.....York, Pa.  
Lebanon Valley College, A.B., 1903.  
*Sociology and Statistics, Political Economy and Finance, Psychology.*
- ARTAND, THEODORE PROSPÈRE (P).....Dobbs Ferry, N. Y.  
Rock Hill College, A.B., 1895.  
*Romance.*
- AUTENRIETH, GEORGE CARL.....(Br) New York City  
College of the City of New York, B.S., 1902.  
*Mechanics, Mathematics.*
- BABCOCK, EARLE BROWNELL (P).....(Mhtn) New York City  
University of Chicago, Ph.B., 1903.  
*Romance, Roman Law and Comparative Jurisprudence.*
- BAKER, ELEANOR R. (P).....Bangor, Me.  
Vassar College, A.B., 1899.  
*Sociology and Statistics.*



- BAKER, ERNEST LINWOOD.....Portland, Me.  
University of Maine, B.S., 1903.  
*Chemistry, Metallurgy.*
- BAKER, EZRA FLAVIUS (P).....Marshall, Missouri  
Missouri Valley College, A.B., 1898.  
Cumberland University, B.D., 1901.  
Columbia University, A.M., 1904.  
*Philosophy, Psychology.*
- BAKER, HENRY THOMAS (P).....Jamestown, N. Y.  
Syracuse University, A.B., 1904.  
*Sociology and Statistics.*
- BAKER, OLIVER EDWIN.....Giffin, Ohio  
Heidelberg University, B.S., 1903; M.S., 1904.  
*Political Philosophy, European History, Constitutional Law.*
- BALCH, EMILY GREENE (P).....Jamaica Plain, Mass.  
Bryn Mawr College, A.B., 1889.  
*Sociology and Statistics.*
- BALDWIN, BURTON JOHN (P).....Woodbridge, Conn.  
Wesleyan University, A.B., 1902.  
Yale University, A.B., 1903.  
*Sociology and Statistics.*
- BALDWIN, FLORENCE THEODORA (P).....(Mhnt) New York City  
Columbia University, A.B., 1900; A.M., 1902.  
*Latin, Greek.*
- BALLARD, CHARLES CLEAR.....Schenectady, N. Y.  
Union College, A.B., 1899.  
*English, Education.*
- BALLARD, GERTRUDE ELLEN.....Minneapolis, Minn.  
University of Minnesota, A.B., 1903.  
*English, Comparative Literature.*
- BANKS, ENOCH MARVIN.....Grantville, Ga.  
Emory College, A.B., 1897; A.M., 1900.  
*Political Economy and Finance, Sociology and Statistics, American History.*
- BANTA, EFFIE MARGARET.....(Bklyn) New York City  
Wellesley College, A.B., 1891.  
*Comparative Literature, Italian.*
- BARNARD, JAMES LYNN.....(Mhnt) New York City  
Syracuse University, B.S., 1892.  
University of Pennsylvania, Ph.D., 1897.  
*Constitutional Law, Administrative Law, International Law.*
- BARNES, NATHANIEL WARING.....Newburgh, N. Y.  
Columbia University, A.B., 1903.  
*English, Comparative Literature.*
- BARON, MORRIS.....Baltimore, Md.  
Harvard University, A.B., 1904.  
*Semitics, Philosophy.*
- BARRETT, MARY FRANKLIN.....Bloomfield, N. J.  
Smith College, B.L., 1901.  
*Botany, Education.*
- BARRICK, MARY OLIVE (P).....Jersey City, N. J.  
Columbia University, A.B., 1901.  
*Latin.*
- BARTON, ROSE MAYARD (P).....Oneonta, N. Y.  
Cornell University, A.B., 1893.  
*English, Education.*
- BASEL, ALEXANDER.....(Bklyn) New York City  
Beth-Hamidrash, Frankfort Germany (equiv. A.B.), 1902.  
*Semitics, Philosophy.*

- BATES, MINER LEE (P).....Newark, N. J.  
Hiram College, A.B., 1895; A.M., 1896.  
*Sociology and Statistics, Political Economy and Finance.*
- BATESON, CHARLES E. W.....(Mhntn) New York City  
Columbia University, E.M., 1902.  
*Geology, Mining.*
- BAUMEISTER, JOHN (P).....(Q) New York City  
College of the City of New York, B.S., 1881; M.S., 1884.  
New York University, A.M., 1900.  
*Germanic, English.*
- BECHERT, ALEXANDER OTTO.....(Bklyn) New York City  
Columbia University, A.B., 1903; A.M., 1904.  
*Germanic, English.*
- BECKWITH, MARTHA WARREN.....Montclair, N. J.  
Mount Holyoke College, B.S., 1893.  
*Anthropology, Psychology, English.*
- BEECKMAN, FLORENCE LOUISE.....(Mhntn) New York City  
Columbia University, A.B., 1904.  
*European History, Ancient History, Anthropology.*
- BENNETT, MARVIN VALLETTE (P).....Spartanburg, S. C.  
Wofford College, A.B., 1898; A.M., 1903.  
*Latin, Greek.*
- BERG, CLARA DE LISSA (P).....East Orange, N. J.  
Columbia University, A.B., 1898; A.M., 1902.  
*Comparative Literature, European History.*
- BERGLUND, ABRAHAM (P).....(Mhntn) New York City  
University of Chicago, A.B., 1904.  
*Political Economy and Finance, Sociology and Statistics, European History, American History.*
- BERNHEIM, LEE.....Louisville, Ky.  
*Political Economy and Finance, Sociology and Statistics, Political Philosophy.*
- BISSELL, REV. PELHAM ST. GEORGE.....Freeport, N. Y.  
Columbia University, A.B., 1880; A.M., 1904.  
Kings College (London,) A.K.C., 1890.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- BLACKFORD, IRVIN (P).....(Mhntn) New York City  
Geneva College, A.B., 1894; A.M., 1895.  
*Sociology and Statistics, Philosophy.*
- BLAKE, FREDERIC COLUMBUS.....(Mhntn) New York City  
University of Chicago, Ph.B., 1901.  
*Physics, Mechanics, Chemistry.*
- BLAKELY, GILBERT SYKES (P).....(Br) New York City  
Dartmouth College, A.B., 1888.  
Harvard University, A.M., 1897.  
*English.*
- BLANK, MARCO ISSER.....(Mhntn) New York City  
New York University, M.D., 1897.  
Columbia University, A.B., 1903.  
*Psychology, Philosophy, Anthropology.*
- BLECHMAN, NATHAN.....(Mhntn) New York City  
College of the City of New York, A.B., 1902.  
*Philosophy, Sociology and Statistics.*
- BLISS, HENRY JAMES WHEELER.....London, England  
Oxford University, A.B., 1904.  
*Chemistry, Metallurgy.*
- BOGERT, CHARLOTTE RITZEMA.....(Bklyn) New York City  
Swarthmore College, A.B., 1904.  
*Latin, Greek.*
- BOLENIUS, EMMA MILLER.....Lancaster, Pa.  
Bucknell University, A.B., 1898; A.M., 1901.  
*English, Comparative Literature.*

- BONSALL, VICTOR FITCH MOUNT (P).....(Mhtn) New York City  
Columbia University, A.B., 1901; A.M., 1902.  
*Latin, Greek.*
- BOUCHER, SOPHIE (P).....(Mhtn) New York City  
Bryn Mawr College, A.B., 1903.  
*English, Comparative Literature.*
- BOWEN, ARTHUR JOHN.....Nanking, China  
Northwestern University, A.B., 1897.  
*Geology, Mineralogy, Chemistry.*
- BOWER, JOHN FREDERICK.....Fredonia, Pa.  
Allegheny College, A.B., 1898.  
*Germanic, Latin.*
- BOWMAN, JOHN GABBERT.....Lyons, Iowa  
University of Iowa, A.B., 1899; A.M., 1904.  
*English, European History.*
- BOWMAN, NINA CLARE.....Newton, Kan.  
University of Kansas, A.B., 1893.  
*Latin, English, Education.*
- BRACKETT, MARY MORRELL (P).....(Mhtn) New York City  
Columbia University, A.B., 1899.  
*Botany.*
- BRADSHAW, EARL LOCKRIDGE.....Clifton Hill, Mo.  
University of Missouri, A.B., 1903.  
Columbia University, A.M., 1904.  
*English, Comparative Literature.*
- BRANDON, IRENE (P).....(Mhtn) New York City  
Normal College, New York, A.B., 1898.  
New York University, A.M., 1900.  
*Comparative Literature.*
- BRECKENRIDGE, WILLIAM EDWIN (P).....(Br) New York City  
Yale University, A.B., 1893; A.M., 1902.  
*Mathematics, Psychology, Education.*
- BREWER, HARRY FRANCIS.....Cincinnati, Ohio  
National Normal University, A.B., 1891.  
*Constitutional Law, Administrative Law, Political Economy and Finance.*
- BRISCO, NORRIS ARTHUR.....Napanee, Can.  
Queens University, A.B., 1898; A.M., 1900.  
*Political Economy and Finance, Sociology and Statistics, Political Philosophy.*
- BRODA, RUDOLF.....Vienna, Austria  
Gymnasium (Vienna, Austria), equiv. A.B., 1898.  
University of Vienna (Austria), J.D., 1902.  
*Sociology and Statistics, Political Economy and Finance, Anthropology.*
- BROWN, THOMAS CLACHER (P).....Fitchburg, Mass.  
Amherst College, A.B., 1904.  
*Geology, Zoology.*
- BROWNE, THOMAS QUINCY (P).....Morristown, N. J.  
Harvard University, A.B., 1888.  
*Education.*
- BURRITT, MARION TILDEN (P).....(Mhtn) New York City  
Smith College, B.L., 1892.  
*English, Comparative Literature.*
- BURTON, HARRIET WRIGHT (P).....(Mhtn) New York City  
Normal College, New York, M.Pd., 1896.  
Illinois Wesleyan University, Ph.B., 1899.  
Columbia University, A.B., 1902.  
*Comparative Literature, English.*
- BUSH, WENDELL T. (P).....(Bklyn) New York City  
Polytechnic Institute, A.B., 1889.  
Harvard University, A.M., 1898.  
*Philosophy, Psychology.*

- BYSHE, ERNEST WILFRED (P).....Madison, N. J.  
 Taylor University, A.B., 1901.  
*Greek, Latin, English.*
- CALDWELL, RUSH MONROE.....Saginaw, Ark.  
 Onachita College, A.B., 1903.  
*English, European History, Sociology and Statistics.*
- CAMPBELL, JOHN.....(Br) New York City  
 College of the City of New York, A.B., 1888.  
 Columbia University, A.M., 1890.  
 New York University, Ph.D., 1896.  
*Semitics.*
- CAMERA, AMERICO ULYSSES N.....(Bklyn) New York City  
 New York University, Ph.B., 1900.  
 Columbia University, A.M., 1901.  
*Romance, Germanic.*
- CARLSON, FRANK.....Minneapolis, Minn.  
 University of Minnesota, A.B., 1901.  
 University of Washington, A.M., 1903.  
*American History, European History, Political Economy and Finance.*
- CARLSSON, CARL PONTIUS (P).....(Mhtn) New York City  
 Columbia University, A.B., 1904.  
*English, Philosophy, European History.*
- CARNAHAN, THOMAS SAMUEL.....Ogden, Utah  
 Missouri School of Mines, B.S., 1904.  
*Mining, Geology, Mineralogy, Chemistry.*
- CARPENTER, CARLETON STYMETS.....White Plains, N. Y.  
 New York University, Ph.B., 1902.  
*American History, European History.*
- CARPENTIER, MARIUS ALEXANDRE (P).....(Bklyn) New York City  
 College of the City of New York, B.S., 1889.  
*Romance.*
- CASE, CLARA CARY (P).....(Mhtn) New York City  
 Bryn Mawr College, A.B., 1904.  
*Latin.*
- CAZIN, ADELE (P).....Hoboken, N. J.  
 Columbia University, B.S., 1904.  
*Chemistry.*
- CECIL, JOHN KNIDEL.....Passaic, N. J.  
 De Pauw University, A.B., 1897.  
*Semitics, Anthropology.*
- CHALOUX, LEUIS BLAINE.....Watervliet, N. Y.  
 Syracuse University, Ph.B., 1904.  
*Philosophy, Sociology.*
- CHAMBERLAIN, ELIZABETH (P).....Chappaqua, N. Y.  
 Vassar College, A.B., 1876.  
 Columbia University, A.M., 1904.  
*Comparative Literature.*
- CHAMBERLAIN, RAYMOND (P).....Oak Ridge, N. J.  
 Illinois Wesleyan College, Ph.B., 1900.  
 Columbia University, A.B., 1901; A.M., 1902.  
*Psychology.*
- CHATER, ELLEN MACRAE D. (P).....Englewood, N. J.  
 Vassar College, A.B., 1894.  
*English, Philosophy.*
- CHICKERING, EDWARD CONNER (P).....(Q) New York City  
 Yale University, A.B., 1896.  
 Harvard University, A.M., 1897.  
*Latin.*
- CHURCH, ALFRED CLARENCE (P).....Osso, Mich.  
 Hillsdale College, B.D., 1903.  
*Sociology and Statistics.*
- CLINTON, EMMA AGNES.....Indianapolis, Ind.  
 Indiana University, A.B., 1900.  
*English, Romance Philology, Spanish.*



- COE, MIRIAM STORRS.....(Mhtn) New York City  
Smith College, B.S., 1899.  
*Zoology.*
- COGSWELL, ASA HORATIO (P).....Alameda, Cal.  
University of California, A.B., 1900; A.M., 1904.  
*Latin, Greek, Education.*
- COHEN, HELEN LOUISE (P).....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*English European History.*
- COHEN, LOUIS.....Chicago, Ill.  
Armour Institute, B.S., 1901.  
*Mechanics, Mathematics.*
- COHEN, LOUIS JACOB.....(Mhtn) New York City  
College of the City of New York, B.S., 1899.  
New York University, M.S., 1902.  
*Chemistry, Physics.*
- COKER, FRANCIS WILLIAM.....Darlington, S. C.  
University of North Carolina, A.B., 1899.  
Harvard University, A.B., 1902.  
*Political Philosophy, European History, Sociology and Statistics.*
- COLLINS, CHARLES.....Kirkwood, Mo.  
University of Missouri, A.B., 1903.  
*Romance.*
- COLTON, ELIZABETH AVERY.....Campbellville, Ky.  
Statesville College, B.L., 1889.  
Columbia University, B.S., 1903.  
*English, Education.*
- CONANT, SARAH HOWARD.....(Mhtn) New York City  
Wellesley College, B.S., 1887.  
*Ancient History.*
- COOLBAUGH, MELVILLE FULLER.....Colorado Springs, Colorado  
Colorado College, B.S., 1902.  
*Chemistry, Metallurgy.*
- COOLE, JAMES JOHNSON, Jr. (P).....Toms River, N. J.  
Princeton University, B.S., 1901.  
*Sociology and Statistics.*
- COOPER, CLAYTON SEDGWICK.....Montclair, N. J.  
Brown University, A.B., 1894.  
*Philosophy, European History.*
- COPELAND, JOHN (P).....(Mhtn) New York City  
Princeton University, A.M., 1894.  
Minnesota State University, Ph.D., 1903.  
*Sociology and Statistics.*
- CORCORAN, CHARLES ALOYSIUS.....(Br) New York City  
College of the City of New York, B.S., 1904.  
*Mechanics, Mathematics, Physics.*
- COURTNEY, CHARLES HENRY (P).....Dobbs Ferry, N. Y.  
Trinity College (Canada), A.B., 1893.  
*Greek.*
- CRAM, GORDON LA FAYETTE (P).....(Mhtn) New York City  
University of Toronto, A.B., 1894.  
Columbia University, A.M., 1904.  
*Romance, German.*
- CRAM, KATHARINE PRIEST (P).....(Mhtn) New York City  
Smith College, B.L., 1897.  
*European History.*
- CRAWFORD, LEONIDAS WAKEFIELD, Jr. (P).....Greensboro, N. C.  
Trinity College (N. C.), A.B., 1898.  
Columbia University, A.M., 1903.  
*English, American History, European History.*

- CROWELL, JOHN WHITING.....(Q) New York City  
Columbia University, A.B., 1903.  
*Sociology and Statistics, Political Economy and Finance, American History.*
- CURRIE, THOMAS HATFIELD (P).....(Mhtn) New York City  
Harvard University, A.B., 1891; A.M., 1893.  
*Mechanics.*
- CURTIN, MARGARET HIGGINS (P).....(Mhtn) New York City  
Columbia University, B.S., 1902; A.M., 1904.  
*Geology.*
- CURTIS, HENRY S.....(Mhtn) New York City  
Yale University, A.B., 1895.  
Clark University, Ph.D., 1898.  
*Philosophy.*
- CURTIS, VARNUM PIERCE.....Worcester, Mass.  
Worcester Polytechnic Institute, B.S., 1901.  
*Civil Engineering, Geology, Mechanics.*
- CUSHING, MARY GERTRUDE (P).....(Mhtn) New York City  
Wellesley College, B.S., 1892; A.M., 1895.  
*Romance, Latin.*
- CUTLER, SANFORD LYMAN (P).....(Br) New York City  
Amherst College, A.B., 1885; A.M., 1888.  
*Latin.*
- CUTTING, HARRIET ELIZABETH (P).....Yonkers, N. Y.  
Columbia University, A.B., 1901.  
*Ancient History.*
- DAVIDOFF, HENRY (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1899.  
Columbia University, A.M., 1904.  
*English, Comparative Literature.*
- DAVIS, JOSIE A. (P).....(Mhtn) New York City  
Boston University, A.B., 1888.  
*Latin.*
- DEAN, CLARA BARTLETT.....Rutherford, N. J.  
Adelphi College, A.B., 1904.  
*American History, European History, Education.*
- DEGAR, ANNIE LOMBARD.....Winona, Minn.  
Northwestern University, B.L., 1901.  
*American History, European History, Sociology and Statistics.*
- DENNIS, HAROLD.....Newark, N. J.  
Princeton University, B.S., 1904.  
*Chemistry, Bacteriology.*
- DIEHL, FRANK (P).....Holt, Mich.  
University of Michigan, Ph.B., 1900.  
Union Theological Seminary, B.D., 1903.  
*Philosophy, Psychology, European History.*
- DILWORTH, JAMES FRANCIS.....Jersey City, N. J.  
Rutgers College, A.B., 1902.  
Columbia University, A.M., 1903.  
*European History.*
- DOTY, KATHARINE SWIFT.....(Mhtn) New York City  
Columbia University, A.B., 1904.  
*European History, Ancient History, Sociology and Statistics.*
- DOX, ARTHUR WEYLAND.....Philadelphia, Pa.  
University of Pennsylvania, B.S., 1904.  
*Chemistry, Physics.*
- DUFFY, FRANCIS PATRICK (P).....Yonkers, N. Y.  
St. Francis Xavier College, A.B., 1894; A.M., 1895.  
Catholic University, S.T.B., 1898.  
*Sociology and Statistics, Political Economy and Finance.*

- DUNCAN, CARSON SAMUEL.....(Mhtn) New York City  
Wabash College, A.B., 1901; A.M., 1902.  
*English, Comparative Literature.*
- DUNNEY, JOSEPH ALOYSIUS (P).....Yonkers, N. Y.  
Manhattan College, A.B., 1901.  
*Semitics.*
- DYER, ALGERNON SIDNEY (P).....Tarrytown-on-Hudson, N. Y.  
Bowdoin College, A.B., 1891; A.M., 1896.  
Harvard University, A.M., 1904.  
*English.*
- EDDY, WALTER HOLLES (P.).....(Mhtn) New York City  
Amherst College, B.S., 1898.  
*Zoology.*
- EDWARDS, LOREN MCCLAIN (P).....Anderson, Ind.  
Moores Hill College, A.B., 1899.  
*Sociology and Statistics.*
- EGELSON, LOUIS ISAAC (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1904.  
*Semitics, Philosophy.*
- EGGLESTON, CHARLOTTE (P).....(R) New York City  
Smith College, A.B., 1900.  
*Mathematics, Mechanics, Education.*
- EGNER, ARTHUR FREDERICK.....Newark, N. J.  
Columbia University, A.B., 1903.  
*Constitutional Law, International Law, American History.*
- EHMAN, THEODORA HOPKINS (P).....Cuba, N. Y.  
Alfred University, A.B., 1898.  
Normal College, New York, Pd.B., 1894.  
*Latin.*
- ELDER, SARAH.....Kalamazoo, Mich.  
University of Chicago, A.B., 1900.  
*English, Education.*
- ELKINS, JOHN CORTLAND (P).....Madison, N. J.  
*Chinese.*
- ELKUS, SAVILLE ALICE.....(Mhtn) New York City  
Columbia University, B.S., 1903; A.M., 1904.  
*Philosophy, Psychology.*
- ELLIS, GEORGE ADAMS.....Castleton, Vt.  
Columbia University, A.B., 1904.  
*Physics, Mechanics, Electrical Engineering.*
- ELLIS, HELEN SILVER.....Baltimore, Md.  
Woman's College of Baltimore, A.B., 1904.  
*Germanic, Latin.*
- ELSWORTH, HAROLD JULIAN.....Irvington-on-Hudson, N. Y.  
Columbia University, A.B., 1904.  
*Comparative Literature, English.*
- EMLEN, JOHN THOMPSON (P).....Germantown, Pa.  
Haverford College, A.B., 1896.  
University of Pennsylvania, B.S., 1902.  
*Sociology and Statistics.*
- ENDELMAN, EDWARD (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1900.  
New York University, A.M., 1903.  
*Philosophy, Psychology.*
- ERON, JOSEPH ELI.....(Br) New York City  
Columbia University, A.B., 1902; A.M., 1903.  
*Germanic, Philosophy, Political Economy and Finance, Sociology and Statistics.*

- ERSKINE, HELEN.....(Mhtn) New York City  
Columbia University, A.B., 1904.  
*English, Comparative Literature.*
- FAIRLEY, EDWIN (P).....(Bklyn) New York City  
Amherst College, A.B., 1886.  
*English.*
- FEDTER, BRUNO (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1903.  
*Latin, Greek, German.*
- FELD, MAX (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*Germanic, English.*
- FELDMAN, DANIEL D. (P).....(Bklyn) New York City  
Northern Indiana Normal School, B.S., 1891; A.M., 1892.  
University of Nebraska, B.S., 1899.  
*Mathematics, Education.*
- FERRIS, RALPH HALL (P).....(Mhtn) New York City  
University of Wooster, A.B., 1901.  
Union Theological Seminary, B.D., 1904.  
*Indo-Iranian, Greek.*
- FEZANDIÉ, HECTOR (P).....(Mhtn) New York City  
Stevens Institute of Technology, E.M., 1875.  
*Mathematics, Mechanics.*
- FINNIGAN, JAMES JOSEPH (P).....(Mhtn) New York City  
Columbia University, A.B., 1900.  
*Romance, German.*
- FISCHER, HELENA MARSHALL.....(Mhtn) New York City  
Columbia University, A.B., 1904.  
*European History, American History, Chemistry.*
- FISHER, ANNA ALMIRA.....Rochester, N. Y.  
Antioch College, A.B., 1889; A.M., 1890.  
*English, Education.*
- FISHER, CHARLES HENRY (P).....York, Pa.  
Lebanon Valley College, A.B., 1904.  
*Philosophy.*
- FLEMING, WALLACE (P).....Maplewood, N. J.  
Muskingum College, A.B., 1894; A.M., 1897.  
Drew Theological Seminary, B.D., 1897.  
*Semitics, Greek.*
- FLEXNER, MARY (P).....Louisville, Ky.  
Bryn Mawr College, A.B., 1895.  
*European History, American History.*
- FLINN, VICTOR GAUSE (P).....(Mhtn) New York City  
Moravian Theological Seminary, B.D., 1900.  
*Sociology and Statistics, Political Philosophy.*
- FLUHRER, HELEN PULLMAN (P).....(Mhtn) New York City  
Radcliffe College, A.B., 1900.  
*Germanic.*
- FOSTER, WALTER EUGENE (P).....(Mhtn) New York City  
Williams College, A.B., 1899.  
*Latin, Roman Archæology, French.*
- FOUCHT, PEARL LEROY (P).....Upper Sandusky, Ohio  
Butler College, A.B., 1903.  
*Political Economy and Finance, Sociology and Statistics, American History.*
- FOWLER, SUSAN.....Catonsville, Md.  
Bryn Mawr College, A.B., 1895.  
*Latin, Greek.*
- FOX, FRED GATES.....Peru, Ill.  
University of Illinois, A.B., 1898; A.M., 1903.  
*English, European History.*



- FRAME, VIRGINIA WOODSON (P).....St. Joseph, Mo.  
Smith College, B.L., 1899.  
*English.*
- FRANK, COLMAN DUDLEY (P).....Toledo, Ohio  
University of Michigan, Ph.B., 1897; A.M., 1902.  
*Romance, English.*
- DE FREMERY, HERMAN (P).....(Mhtn) New York City  
*Zoology.*
- FRIEDMAN, HARRY GEORGE.....Cincinnati, Ohio  
University of Cincinnati, A.B., 1904.  
*Political Economy and Finance, Sociology and Statistics, Political Philosophy.*
- FROEBERG, SVEN (P).....(Bklyn) New York City  
Bethany College, A.B., 1903.  
*Psychology, Philosophy.*
- FROST, MARY K. (P).....(Mhtn) New York City  
Knox College, A.B., 1901.  
*English, European History, Comparative Literature.*
- FULLER, LOUISE STETSON.....Bath, Me.  
Smith College, A.B., 1904.  
*American History, European History, Political Economy and Finance.*
- GABRIEL, BASIL RAPHAEL.....Syracuse, N. Y.  
*Semitics, Sociology and Statistics.*
- GAGE, HARRY MOREHOUSE (P).....Huron, So. Dakota  
Wooster University, A.B., 1900; A.M., 1904.  
*Philosophy, Psychology.*
- GALLOWAY, IDA GRAY (P).....Freeport, Ill.  
University of California, Ph.B., 1892.  
*American History.*
- GALWEY, CHARLES (P).....(Mhtn) New York City  
New York University, A.B., 1901.  
*English.*
- GANO, LINA E.....(Mhtn) New York City  
Kansas State University, A.B., 1904.  
*European History, American History.*
- GARABEDIAN, HOHANNES BARKER (P).....(Mhtn) New York City  
Euphrates College (equiv. A.B.), 1880.  
Union Theological Seminary, B.D., 1899.  
*Psychology.*
- GARTRELL, HERBERT WILLIAM.....Gawler, South Australia  
University of Adelaide, A.B., 1902; B.S. 1902.  
*Mining, Metallurgy.*
- GATZEN, WILHELM.....Germany  
Gymnasium of Cologne (equiv. A.B.), 1898.  
*Sociology and Statistics, Political Economy and Finance, Administrative Law.*
- GERE, LOUISA BREWSTER (P).....Fulton, N. Y.  
Wellesley College, A.B., 1889.  
*English.*
- GERSHANEK, SINAI.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*European History, American History, Sociology and Statistics.*
- GILBERT, JAMES HENRY.....Eugene, Oregon  
University of Oregon, A.B., 1903.  
*Political Economy and Finance, Sociology and Statistics, European History.*
- GILBERT, MATTHEW WILLIAM (P).....(Mhtn) New York City  
Colgate University, A.B., 1887; A.M., 1890.  
*Semitics.*

- GILLIN, JOHN LEWIS..... Waterloo, Iowa  
Upper Iowa University, Lit.B., 1894.  
Iowa College, A.B., 1895.  
Columbia University, A.M., 1903.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- GOLDENWEISER, ALEXANDER..... (Mhntn) New York City  
Columbia University, A.B., 1902; A.M., 1904.  
*Anthropology, Psychology, Sociology and Statistics.*
- GOLDFARB, ABRAHAM J. (P)..... (Mhntn) New York City  
College of the City of New York, B.S., 1900.  
*Zoology, Botany, Physiology.*
- GOLDMAN, HETTY (P)..... (Mhntn) New York City  
Bryn Mawr College, A.B., 1903.  
*Greek.*
- GOODALE, HUBERT DANA..... Suffield, Conn.  
Trinity College, A.B., 1903; A.M., 1904.  
*Zoology, Botany, Physiology.*
- GOODLATTE, AMELIA RICHARDSON (P)..... Passaic, N. J.  
Wells College, A.B., 1900.  
*Zoology.*
- GORDON, CLARENCE EVERETT..... Clinton, Mass.  
Massachusetts Agricultural College, B.S., 1901.  
Boston University, B.S., 1903.  
*Geology, Palæontology, Zoology.*
- GORDON, LILIAN (P)..... (Bklyn) New York City  
Mt. Holyoke College, A.B., 1902.  
*American History.*
- GRAHAM, EDWARD KIDDER..... Charlotte, N. C.  
University of North Carolina, Ph.B., 1898.  
Columbia University, A.M., 1903.  
*English, Comparative Literature.*
- GRANT, ROSCOE ALLAN (P)..... (Mhntn) New York City  
Wesleyan University, A.B., 1894; A.M., 1901.  
*Latin.*
- GRANT, WILLIS HOWARD (P)..... (Mhntn) New York City  
Harvard University, A.B., 1899.  
*Zoology.*
- GREENBERG, JACOB..... (Mhntn) New York City  
College of the City of New York.  
*Philosophy, Psychology.*
- GRENON, FELIX..... (Bklyn) New York City  
College of the City of New York, B.S., 1900.  
Columbia University, A.M., 1902.  
*English, German.*
- GREY, EVA WOODWARD (P)..... (Bklyn) New York City  
*Greek, Classical Archaeology.*
- GRIFFIN, ELEANOR PATRICIA..... (Mhntn) New York City  
Trinity College, A.B., 1904.  
*Latin, Roman Archaeology, English.*
- GROAT, GEORGE GORHAM (P)..... Albany, N. Y.  
Syracuse University, A.B., 1895.  
Cornell University, A.M., 1901.  
*Political Economy and Finance.*
- GRUENBERG, BENJAMIN CHARLES..... (Mhntn) New York City  
University of Minnesota, B.S., 1896.  
*Physiological Chemistry, Botany, Education.*
- GUÉBIN, LOUISE (P)..... (Bklyn) New York City  
Lycée Mohère (equiv. A.B.), 1899.  
*Romance.*

- HAAS, GEORGE CHRISTIAN OTTO (P) .....(Mhtn) New York City  
Columbia University, A.B., 1902; A.M., 1903.  
*Indo-Iranian, German.*
- HAINES, CHARLES GROVE .....Dover, Pa.  
Ursinus College, A.B., 1903.  
Columbia University, A.M., 1904.  
*Constitutional Law, Administrative Law, European History.*
- HALL, FRANCES ESTELLE .....Jersey City, N. J.  
*Latin, Greek, German.*
- HANKUIS, FRANK HAMILTON .....Baldwin, Kan.  
Baker University, A.B., 1901.  
*Sociology and Statistics, Political Economy and Finance, Political Philosophy.*
- HARDING, EARL (P) .....(Mhtn) New York City  
*European History, American History.*
- HARPER, ROWLAND McMILLAN (P) .....(Q) New York City  
University of Georgia, B.E., 1897.  
*Botany.*
- HARTMANN, HENRY G. ....(Bklyn) New York City  
Polytechnic Institute, Brooklyn, A.B., 1900.  
*Philosophy, Psychology, Political Economy and Finance.*
- HARTMANN, JACOB WITTMER (P) .....(Mhtn) New York City  
*Germanic, English.*
- HARTNAGEL, CHRIS. ANDREW .....Newark, N. J.  
Union College, B.S., 1898.  
State Normal College, Pd.B., 1900.  
*Geology, Zoology.*
- HASKELL, JULIANA .....(Mhtn) New York City  
Columbia University, A.B., 1904.  
*Germanic, Spanish.*
- HATCH, HAMLIN BROOKS (P) .....(Mhtn) New York City  
*Geology, Mining.*
- HAYES, CARLTON HUNTLEY .....Afton, N. Y.  
Columbia University, A.B., 1904.  
*European History, American History, International Law.*
- HEDRICK, CHARLES BAKER .....Jacksonville, Fla.  
Trinity College, A.B., 1899.  
*Philosophy, Greek.*
- HEIN, HENRY EMMO (P) .....(Br) New York City  
College of the City of New York, A.B., 1902.  
*Philosophy.*
- HEINTZE, RICHARD WILHELM (P) .....Hawthorne, N. Y.  
Concordia College (equiv. A.B.), 1887.  
*Germanic.*
- HENMON, VIVIAN ALLEN CHARLES .....Lindsborg, Kan.  
Bethany College, A.B., 1895; A.M., 1899.  
*Psychology, Philosophy, Education.*
- HERBERT, LE ROY BEDFORD .....(Mhtn) New York City  
College of the City of New York, A.B., 1898.  
*European History, American History, Administrative Law.*
- HERMSTEADT, CONRAD EDMUND (P) .....(Mhtn) New York City  
Moravian College, A.B., 1898.  
*Sociology and Statistics, European History.*
- HERRICK, JOSEPH CAWDELL (P) .....Shelbyville, Ill.  
University of Virginia, A.B., 1897.  
Johns Hopkins University, Ph.D., 1900.  
*Psychology.*
- HERSHMAN, ABRAHAM MOSES (P) .....(Mhtn) New York City  
College of the City of New York, A.B., 1904.  
*Philosophy, Sociology and Statistics.*

- HERZFELD, ELSA GOLDINA.....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Sociology and Statistics, Political Economy and Finance, American History.*
- HEUSSLER, ARTHUR FRANK.....Buffalo, N. Y.  
Hobart College, Ph.B., 1904.  
*English, Comparative Literature, German.*
- HIGGINS, ALICE (P).....(Bklyn) New York City  
Adelphi College, A.B., 1902.  
*Romance.*
- HILL, ROBERT TUDOR.....Lincoln, Neb.  
University of Nebraska, A.B., 1903.  
*Sociology and Statistics, Political Economy and Finance, Administrative Law.*
- HILLER, ROBERT HENRY.....(Mhtn) New York City  
Wittenberg College, A.B., 1889; A.M., 1892.  
Hartwick Theological Seminary, B.D., 1894.  
*Latin, Greek.*
- HILMER, HERMAN.....(Mhtn) New York City  
University of Michigan, A.B., 1904.  
*Germanic, French.*
- HINCKLEY, FRANK ERASTUS.....Oakland, Cal.  
Beloit College, A.B., 1892.  
*International Law, Constitutional Law, European History.*
- HINES, CECIL SHEPARD.....Granville, Ohio  
Denison University, B.S., 1902.  
*Zoölogy, Physiology.*
- HODLEY, HARWOOD (P).....(Mhtn) New York City  
Columbia University, A.B., 1900.  
*Greek.*
- HODGETTS, ABBIE SYLVIA (P).....(Bklyn) New York City  
Wesleyan University, Nebraska, A.B., 1896.  
Columbia University, A.M., 1902.  
*English.*
- HODGKINS, GEORGIANA (P).....(Mhtn) New York City  
University of California, Ph.B., 1893.  
*English.*
- HOFFMAN, ALFRED.....(Bklyn) New York City  
Columbia University, A.B., 1903; A.M., 1904.  
*Chemistry, Physics.*
- HOFFMAN, JAMES JULIUS (P).....Cleveland, Ohio  
Western Reserve University, A.B., 1903.  
*Philosophy, Education, European History.*
- HOLBROOK, MARION GOODHUE.....(Mhtn) New York City  
Smith College, B.L., 1901.  
*American History, European History, English.*
- HOLLAND, THOMAS BOND (P).....St. Louis, Mo.  
University of Michigan, A.B., 1893.  
Missouri Medical College, M.D., 1896.  
*Chinese.*
- HOLMES, JESSIE ALLEN (P).....(Bklyn) New York City  
Cornell University, B.S., 1898.  
*Physics.*
- HOOPER, CHARLES THOMAS, Jr.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*Sociology and Statistics, European History, Philosophy.*
- HOPE, IDA MAY.....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Zoölogy, Botany, Education.*
- HOME, RUTH BOUTON.....Geneseo, N. Y.  
Columbia University, A.B., 1903.  
*American History, European History, Psychology.*



- HOWARD, GREY CLEMENS.....(Mhtn) New York City  
University of Nebraska, B.S., 1900.  
*Chemistry, Metallurgy.*
- HOWELL, ALLEYNE CARLETON (P).....(Mhtn) New York City  
St. Stephens College, A.B., 1901; A.M., 1904.  
*European History.*
- HUBBARD, GRACE A. (P).....Northampton, Mass.  
Smith College, A.B., 1887.  
Cornell University, A.M., 1893.  
*Comparative Literature, English.*
- HUGHES, GEORGE EDWARD.....La Grange, Ind.  
Wabash College, A.B., 1900.  
*Philosophy, Psychology, European History.*
- HULBERT, GUSTAVUS ADOLPHUS (P).....Newark, N. J.  
Lafayette College, A.B., 1904.  
*Philosophy.*
- HUMPHREYS, EDWIN WILLIAM (P).....(Br) New York City  
College of the City of New York, A.B., 1903.  
*Geology.*
- HUNT, ARTHUR PRINCE (P).....(Mhtn) New York City  
Amherst College, A.B., 1897; A.M., 1902.  
*Sociology and Statistics.*
- HUNT, LEVI CLARENCE (P).....New Freedom, Pa.  
Dickinson College, A.B., 1897; A.M., 1899.  
*Sociology and Statistics.*
- HUNTER, JOHN MERRITT.....Warren, Pa.  
Harvard University, A.B., 1904.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- HURLBURT, KATHERINE MARIA.....Wethersfield, Conn.  
Smith College, A.B., 1886.  
*Philosophy, Psychology, Sociology and Statistics.*
- HUSSAKOF, LOUIS.....(Mhtn) New York City  
College of the City of New York, B.S., 1900.  
*Zoölogy, Physiology, Physiological Chemistry.*
- HUTTMANN, MAUDE ALINE (P).....(Bklyn) New York City  
*European History, Ancient History.*
- HYDE, HENRY ST. JOHN (P).....(Mhtn) New York City  
Columbia University, Ph.B., 1896; A.M., 1898.  
*Chemistry.*
- IBA, KANICHI.....Tokio, Japan  
Waseda Gakko, Japan (equiv. A.B.), 1903.  
*Political Economy and Finance, Sociology and Statistics, American History.*
- INGRAHAM, EDWARD ANDREWS.....(Bklyn) New York City  
Wesleyan University, A.B., 1902.  
*English, European History.*
- INGRAHAM, OLIN.....(Bklyn) New York City  
Wesleyan University, Ph.B., 1904.  
*Political Economy and Finance, Sociology and Statistics, Political Philosophy.*
- IRVING, LOUISE HENDERSON (P).....(R) New York City  
Smith College, B.L., 1902.  
*European History, American History, Sociology and Statistics.*
- ISHIMURA, SEICHI.....Iyo, Japan  
Kerogiku University, Japan (equiv. A.B.), 1896.  
*Constitutional Law, International Law, Political Economy and Finance.*
- JACKSON, KATHERINE (P).....London, Ky.  
Wesleyan University, A.B., 1898; A.M., 1900.  
*English, Comparative Literature.*
- JACOBS, LEO (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1900.  
*Philosophy, Psychology.*

- JACOBS, WALTER ABRAHAM.....(Mhtn) New York City  
Columbia University, A.B., 1904.  
*Chemistry, Metallurgy.*
- JACOBSTEIN, MEYER.....Rochester, N. Y.  
Columbia University, A.B., 1904.  
*Political Economy and Finance, Sociology and Statistics, European History.*
- JAGLE, ELIZABETH CARLISLE (P).....(Mhtn) New York City  
Cornell University, M.D., 1902.  
*Zoology.*
- JANEWAY, FRANK LATIMER, 2d (P).....New Brunswick, N. J.  
*Sociology and Statistics.*
- JARVIE, MARGARET SCOTT.....Bayonne, N. J.  
*English Language and Literature, European History, Education.*
- JARVIS, ROYAL PRESTON.....Pullman, Wash.  
Colorado State School of Mines, E.M., 1897.  
*Mining, Geology, Metallurgy.*
- JOFFE, JOSHUA ABRAHAM (P).....(Mhtn) New York City  
Gymnasium, Berlin, Germany (equiv. A.B.), 1888.  
*Philosophy, Education.*
- JOHNSON, EDITH HENRY (P).....(Mhtn) New York City  
University of Nebraska, A.B., 1898; A.M., 1900.  
Radcliffe College, A.M., 1902.  
*Philosophy.*
- JONES, THOMAS CARLYLE.....Baltimore, Md.  
University of Pennsylvania, B.S., 1903.  
*Mathematics, Physics.*
- JOSEPH, SAMUEL.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*Sociology and Statistics, Political Economy and Finance, Anthropology.*
- JOSHI, SAMUEL LUCAS.....(Mhtn) New York City  
Madras University, A.B., 1896.  
*Political Economy and Finance, Sociology and Statistics, Political Philosophy.*
- JOUARD, FAREL LOUIS.....(Mhtn) New York City  
Columbia University, A.B., 1904.  
*Chemistry, Physics.*
- KANOLT, CLARENCE WHITNEY (P).....(Mhtn) New York City  
Columbia University, B.S., 1902.  
*Chemistry.*
- KASHIWAI, EU (P).....Tokio, Japan  
Doshisha College, Japan (equiv. A.B.), 1892.  
*Philosophy.*
- KAWAI, KAMASUKE (P).....Tokio, Japan  
Meigi Gakim (equiv. A.B.), 1890.  
*Philosophy.*
- KEEP, AUSTIN BAXTER (P).....(Mhtn) New York City  
Amherst College, A.B., 1897; A.M., 1901.  
*American History.*
- KELLER, ELEANOR ISABELLE (P).....(Mhtn) New York City  
*Psychology, Education, Anthropology.*
- KELLOGG, PAUL UNDERWOOD (P).....(Mhtn) New York City  
*Political Economy and Finance.*
- KELLINGTON, HERBERT EDGAR.....(Mhtn) New York City  
University of Toronto, A.B., 1900; A.M., 1903.  
*Philosophy, Hebrew.*
- KELLS, LUCAS CARLISLE.....Sauk Centre, Minn.  
University of Minnesota, A.M., 1904.  
*Philosophy, Psychology.*
- KEMP, WILLIAM C. B.....(Mhtn) New York City  
Columbia University, LL.B., 1896; A.B., 1900; A.M., 1901; LL.M. 1901.  
*International Law, Constitutional Law, American History.*

- KENNEDY, MARY STEWART.....(Mhtn) New York City  
New York University, Pd.M., 1899; Pd.D., 1902.  
Adelphi College, A.B., 1901.  
Columbia University, A.M., 1902.  
*Comparative Literature.*
- KILBOURNE, STANLEY SHUMWAY (P).....(Mhtn) New York City  
University of Minnesota, A.B., 1903.  
*Philosophy, European History.*
- KING, HELEN LOUISE (P).....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Latin.*
- KLEIN, DAVID (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1902; A.M., 1904.  
*English, French.*
- KLEINKNECHT, HELEN (P).....Newton, Kan.  
University of Kansas, A.B., 1899; A.M., 1901.  
Radcliffe College, A.M., 1904.  
*Psychology, Education.*
- KNAUFF, GRANT.....(Q) New York City  
Columbia University, A.B., 1904.  
*Semitics, Philosophy, European History.*
- KNIGHT, CYRIL WORKMAN.....Kingston, Canada  
Queens College, Canada, B.S., 1903.  
*Geology, Mineralogy.*
- KOCH, ERNEST HERMAN, Jr. (P).....Philadelphia, Pa.  
University of Pennsylvania, B.S., 1897.  
*Mechanics.*
- KOENIG, NICHOLAS AUGUST.....(Mhtn) New York City  
Columbia University, A.B., 1903; A.M., 1904.  
*Semitics, German.*
- KOHN, LUCILE.....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Greek, Latin.*
- KOTTMAN, WILLIAM ADOLPH (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1886.  
Columbia University, LL.B., 1889.  
New York University, Pd.M., 1902.  
*Sociology and Statistics, Administrative Law, Roman Law and Comparative Jurisprudence.*
- KOVAR, ABRAHAM (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1901.  
Columbia University, A.M., 1903.  
*English, Comparative Literature, Philosophy.*
- KROEBER, ELSBETH (P).....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Zoology.*
- KUPFER, ELSIE.....(Mhtn) New York City  
Columbia University, A.B., 1899; A.M., 1901.  
*Botany, Zoology.*
- KUWASHIMA, HISAO.....Tokio, Japan  
First Koto Gakko, Tokio (equiv. A.B.), 1901.  
*Political Economy and Finance, Sociology and Statistics, International Law.*
- LAMB, EDWIN GIFFORD.....(Mhtn) New York City  
Leland Stanford, Jr. University, A.B., 1904.  
*Sociology and Statistics, Political Economy and Finance, Philosophy.*
- LAMB, WILLIAM WHITFIELD (P).....(Mhtn) New York City  
Amherst College, A.B., 1901.  
*Romance.*

- LASELL, GEORGE MERRILL (P).....Plattsburgh N. Y.  
 Illinois Wesleyan University, Ph.B., 1903.  
 Columbia University, A.M., 1904.  
*American History, European History.*
- LASH, JAMES H. (P).....Winnebago City, Minn.  
 Hillsdale College, A.B., 1900; B.D., 1903.  
*Sociology and Statistics.*
- LATHAM, MARION ELIZABETH.....(Mhntn) New York City  
 Columbia University, A.B., 1903.  
*Botany, Physics.*
- LAW, ROBERT JULIUS.....Newark, N. J.  
 Central Pennsylvania College, A.B., 1900.  
 Columbia University, A.M., 1901.  
*Semitics, Turkish.*
- LAVELL, CECIL FAIRFIELD.....Philadelphia, Pa.  
 Queens University, Canada, A.M., 1894.  
*European History, Political Philosophy, English.*
- LAWRENCE, ALFRED STRATTON.....(Mhntn) New York City  
 Columbia University, A.B., 1902.  
*Semitics, Greek, European History.*
- LEARY, RUSSEL WOODWARD (P).....Elizabeth, N. J.  
 Rutgers College, A.B., 1902.  
*Greek, Latin.*
- LEASE, BEN-HUR (P).....(Mhntn) New York City  
 College of the City of New York, A.B., 1904.  
*English.*
- LEHMAN, EUGENE HEITLER (P).....Pueblo, Colo.  
 Yale University, A.B., 1902.  
*Philosophy.*
- LEIBSON, JACOB JOSHUA (P).....(Mhntn) New York City  
 College of the City of New York, B.S., 1901.  
*English.*
- LESEM, WILLIAM WOLFE.....(Mhntn) New York City  
 Columbia University, A.B., 1899; A.M., 1901; M.D., 1903.  
*Anatomy, Zoology, Physiological Chemistry.*
- LESH, JOHN ANDREW (P).....Madison, N. J.  
*European History.*
- LEUCHS, MAXIMILIAN JOHN CHRISTIAN (P).....(Mhntn) New York City  
 College of the City of New York, A.B., 1903.  
*Mathematics, Physics.*
- LEVY, FELIX ALEXANDER.....(Mhntn) New York City  
 College of the City of New York, A.B., 1904.  
*Semitics, Philosophy, Sociology and Statistics.*
- LEVY, HENRY ALFRED (P).....(Mhntn) New York City  
 College of the City of New York, A.B., 1900.  
*Mathematics.*
- LEWIS, ALBERT BUELL (P).....(Mhntn) New York City  
 University of Chicago, A.B., 1894.  
*Anthropology, Psychology, Zoology.*
- LICHTENBERGER, JAMES P. (P).....(Mhntn) New York City  
 Eureka College, A.B., 1893.  
 Hiram College, A.M., 1902.  
*Sociology and Statistics, Political Economy and Finance, Philosophy.*
- LINGLEY, CHARLES RAMSDELL.....Worcester, Mass.  
 Worcester Polytechnic Institute, B.S., 1900.  
*American History, European History, Philosophy.*
- LIPSCOMB, DABNEY.....Columbus, Miss.  
 University of Mississippi, A.B., 1879; A.M., 1881.  
*English, Comparative Literature.*



- LIPSKY, ABRAM (P).....Rochester, N. Y.  
Rochester University, Ph.B., 1895.  
Columbia University, A.M., 1900.  
*Political Economy and Finance, Sociology and Statistics, Psychology.*
- LOHMAN, HARRY WILLIAM.....(Bklyn) New York City  
Missouri School of Mines, B.S., 1904.  
*Mining, Geology, Mineralogy, Chemistry.*
- LOSHE, LILLIE DEMING.....Stamford, Conn.  
Bryn Mawr College, A.B., 1899.  
Columbia University, A.M., 1903.  
*English, Comparative Literature.*
- LOWD, EMMA FULLER (P).....Salem, Mass.  
Boston University, A.B., 1887.  
*English, Latin.*
- LOWIE, ROBERT HARRY.....(Mhtn) New York City  
College of the City of New York, A.B., 1901.  
*Anthropology, Psychology.*
- LUBLENSKY, NATHAN ARIOS (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1904.  
*Philosophy, Sociology and Statistics, Political Economy and Finance.*
- LYON, ROMOLA (P).....Englewood, N. J.  
Columbia University, A.B., 1904.  
*Chemistry.*
- LYONS, ALEXANDER (P).....(Bklyn) New York City  
McMicken University, B.L., 1891.  
*Sociology and Statistics, Political Economy and Finance, Philosophy.*
- LU, YAO-TING (P).....Canton, China  
Imperial University, Tientsin (China), B.S., 1899.  
*Civil Engineering.*
- MCBAIN, HOWARD LEE (P).....Richmond, Va.  
Richmond College, A.B., 1900; A.M., 1901.  
*Constitutional Law, International Law, Political Economy and Finance.*
- MCCLEMENT, THOMAS BULL (P).....(Mhtn) New York City  
*Political Economy and Finance, Philosophy.*
- MCCOOK, JANETTA ALEXANDER.....(Mhtn) New York City  
Columbia University, A.B., 1902; A.M., 1903.  
*Philosophy, Sociology and Statistics.*
- MCDERMOTT, WILLIAM RICHARD.....Fawn Grove, Pa.  
Lafayette College, Ph.B., 1901.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- MCDOWELL, PAULINE.....Newark, N. J.  
Wellesley College, A.B., 1896.  
*Chemistry, Physical Chemistry, German.*
- MCGOVNEY, DUDLEY ODELL (P).....Bloomington, Ind.  
Indiana University, A.B., 1901.  
Harvard University, A.M., 1904.  
*Constitutional Law, International Law, Roman Law and Comparative Jurisprudence.*
- MCKIM, JOHN COLE (P).....(Mhtn) New York City  
Kenyon College, A.B., 1904.  
*Greek, European History.*
- MCLAUGHLIN, LEO.....(Mhtn) New York City  
St. Francis Xavier College, A.B., 1898.  
Columbia University, LL.B., 1898; A.M., 1903.  
*Latin, Greek.*
- MCCLAURY, CHARLES HENRY.....Deposit, N. Y.  
Syracuse University, A.B., 1900; A.M., 1902.  
*Latin Greek.*

- McMURRAY, FRED RUSSELL.....Gordon City, Kansas  
Columbia University, A.B., 1900.  
*Mechanics, Physics, Mathematics.*
- McNEELY, ELIZABETH.....Ontario, Canada  
University of Toronto, A. B., 1896.  
*European History, American History, Comparative Literature.*
- McVICKER HARVEY GRANT (P).....(Mhntn) New York City  
Waynesburg College, A.B., 1894.  
*Sociology and Statistics, Political Economy and Finance.*
- MACLEAR, ANNE BUSH.....Wilmington, Del.  
Columbia University, B.S., 1901.  
*American History, European History, English.*
- MACLEOD, FRASER LOCHLAND (P).....Chicopee Falls, Mass.  
Princeton University, A.B., 1904.  
*Sociology and Statistics.*
- MARSH, HOWARD DANIEL.....Los Angeles, Cal.  
Ohio Wesleyan University, A.B., 1901; A.M., 1902.  
*Psychology, Education, Sociology and Statistics.*
- MARSTERS, VERNON FREEMAN (P).....Indianapolis, Ind.  
Acadia College, A.B., 1886.  
Harvard University, A.M., 1898.  
*Geology, Geography.*
- MARTIN, LOUIS ADOLPHE, JR. (P).....Hoboken, N. J.  
Stevens Institute, M.E., 1900.  
Columbia University, A.M., 1903.  
*Mechanics.*
- MARTIN, MELVIN ALBERT.....Richmond, Va.  
Richmond College, A.B., 1898.  
*Psychology, Philosophy.*
- MASLAND, MARY ELIZABETH (P).....Germantown, Pa.  
Bryn Mawr College, A.B., 1901.  
*English.*
- MASSE, WILLIE W. (P).....(Mhntn) New York City  
University of Minnesota, B.L., 1901.  
Columbia University, A.M., 1903.  
*English.*
- MAYO, MARION JACOB (P).....(Mhntn) New York City  
*Sociology and Statistics.*
- MEAD, CHARLES SEARING (P).....Columbus, Ohio  
Ohio State University, B.S., 1904.  
*Palæontology, Zoology, Physiology.*
- MEAD, NELSON PRENTISS (P).....(Mhntn) New York City  
College of the City of New York, B.S., 1899.  
Columbia University, A.M., 1903.  
*Administrative Law, International Law, Constitutional Law, American History.*
- MEARS, REV. WILSON HOWARD (P).....(Mhntn) New York City  
*Political Economy and Finance, Sociology and Statistics, Philosophy.*
- MERCIER, LOUIS ALEXANDRE JOSEPH.....Chicago, Ill.  
St. Ignatius College, A.B., 1900; A.M., 1902.  
*Romance, Comparative Literature.*
- METZENTHIN, WALDEMAR ERIC.....Steelton, Pa.  
Franklin and Marshall College, A.B., 1899.  
*Germanic, English.*
- MEYER, ARNOLD WILLIAM.....Alton, Iowa  
Iowa College, A.B., 1899.  
*Chemistry, Physics.*
- MEYER, ERNEST RICHARD (P).....Cincinnati, Ohio  
University of Cincinnati, A.B., 1901.  
*Sociology and Statistics, European History.*

- MEYER, MARTIN ABRAHAM.....Albany, N. Y.  
University of Cincinnati, A.B., 1899.  
Hebrew Union College, B.D., 1901.  
*Semitics, Anthropology.*
- MICHAEL, GEORGE WASHINGTON.....(Mhtn) New York City  
College of the City of New York, B.S., 1897.  
*English, German.*
- MICHAEL, LOUIS GUY (P).....Hastings, Mich.  
Michigan Agricultural College, B.S., 1903.  
*Chemistry, Geology, Mineralogy.*
- MILLER, ALVENIA BARNETTE (P).....Columbia, S. C.  
Columbia University, A.B., 1902; A.M., 1903.  
*English, Comparative Literature.*
- MILLER, LENA ADELE.....White Plains, N. Y.  
Columbia University, A.B., 1904.  
*Zoology.*
- MILLS, JOSEPH STRAYER (P).....(Mhtn) New York City  
Western Maryland College, A.B., 1890; A.M., 1893.  
*Physics.*
- MITCHELL, JULIA POST.....Philadelphia, Pa.  
Smith College, B.L., 1901.  
Columbia University, A.M., 1904.  
*English, Comparative Literature.*
- MITTY, JOHN JOSEPH (P).....Yonkers, N. Y.  
Manhattan College, A.B., 1901.  
*Sociology and Statistics, Political Economy and Finance.*
- MOELLER, PHILIP.....(Mhtn) New York City  
Columbia University, A.B., 1904.  
*English, Comparative Literature.*
- MOLWITZ, ERNESTINE.....(Br) New York City  
Columbia University, A.B., 1902.  
*Germanic, Education.*
- MOORE, EDNA LUCILE (P).....Moscow, Idaho  
University of Idaho, A.B., 1903.  
*German.*
- MOORE, FLORA PATIENCE.....Moscow, Idaho  
Northwestern University, B.S., 1896.  
*Germanic, Education.*
- MOORE, JUSTIN HARTLEY.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.  
*Indo-Iranian, Greek.*
- MOORE, STEPHEN HALCUT.....Georgetown, Texas  
Vanderbilt University, A.B., 1894.  
*American History, European History, Political Economy and Finance.*
- MORGAN, CHARLOTTE ELIZABETH.....(Bklyn) New York City  
Columbia University, A.B., 1904.  
*English, European History.*
- MORREY, WILLIAM THOMAS (P).....(Mhtn) New York City  
Ohio State University, A.B., 1888.  
New York University, A.M., 1893.  
*American History.*
- MORRILL, CHARLES VIRGIN, JR.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.  
*Zoology, Physiology, Paleontology.*
- MORRISON, CHARLES EDWARD.....(Mhtn) New York City  
College of the City of New York, B.S., 1897.  
Columbia University, A.M., 1901; C.E., 1901.  
*Civil Engineering, Chemistry, Bacteriology.*

- MORSE, LIVINGSTON BURRILL (P).....Upper Montclair, N. J.  
College of the City of New York, B.S., 1889.  
*European History, American History, Sociology and Statistics.*
- MORSE, MAX (P).....(Mhtn) New York City  
Ohio State University, B.S., 1903; A.M., 1904.  
*Zoology, Physiology.*
- MORSS, LEIGH MERLE.....Scranton, Pa.  
Lehigh University, A.B., 1904.  
*European History, American History, Constitutional Law.*
- MUNSON, DANIEL GILBERT (P).....(Bklyn) New York City  
Colby College, A.B., 1892; A.M., 1895.  
*English, Education.*
- MURRAY, BENJAMIN LINDLEY.....(Mhtn) New York City  
University of Michigan, B.S., 1896.  
*Chemistry, Philosophy.*
- MYERS, WILLARD LAWRENCE.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.  
Columbia University, A.M., 1904.  
*English, Comparative Literature.*
- NAMMACK, ELIZABETH FRANCES (P).....(Mhtn) New York City  
Columbia University, A.B., 1895; A.M., 1896.  
*Latin, Greek.*
- NASON, ARTHUR HUNTINGTON.....Augusta, Maine  
Bowdoin College, A.B., 1899; A.M., 1903.  
*English, European History.*
- NASON, GEORGE FRANK.....New Rochelle, N. Y.  
Columbia University, A.M., 1902.  
*Sociology and Statistics, Political Economy and Finance.*
- NEFENECKER, EUGENE ALEXANDER (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1901.  
*European History, American History, Political Economy and Finance.*
- NELSON, AUBREY PERCY (P).....(Mhtn) New York City  
University of Chicago, A.B., 1902.  
Columbia University, A.M., 1904.  
*Philosophy, Sociology and Statistics.*
- NESBIT, WILLIAM MARSIGLIA (P).....(Mhtn) New York City  
Columbia University, A.B., 1902.  
*Sociology and Statistics.*
- NEUMANN, HENRY (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1900.  
New York University, A.M., 1903.  
*Comparative Literature, English.*
- NEWCOMER, HARVEY (P).....(Mhtn) New York City  
Franklin and Marshal College, A.B., 1892; A.M., 1895.  
*Physics, Chemistry, Education.*
- NISSENSON, SAMUEL GEORGE.....(Mhtn) New York City  
College of the City of New York, A.B., 1904.  
*American History, European History, International Law, Administrative Law.*
- NORRIS, JOHN SOWARDS (P).....(Mhtn) New York City  
Ohio State University, Ph.B., 1901.  
*Philosophy, Psychology, Education.*
- NYE, CAROLINE VINCENT (P).....Delaware, Ohio  
*English, Education.*
- OGDEN, CHARLES JONES.....(Mhtn) New York City  
Columbia University, A.B., 1900; LL.B., 1903; A.M., 1903.  
*Greek, Latin, Sanskrit.*
- OGLE, ALFRED M., Jr.....Indianapolis, Ind.  
Princeton University, C.E., 1904.  
*Mechanical Engineering, Electrical Engineering, Mining.*



- OLDHAM, GEORGE ASHTON.....(Mhtn) New York City  
Cornell University, A.B., 1902.  
*Philosophy, Greek.*
- OLIVER, EDMUND H. (P).....Eberts, Canada  
University of Toronto, A.B., 1902; A.M., 1903.  
*Ancient History, European History, Political Economy and Finance.*
- OSBORNE, ELEANOR FRANCES (P).....(Mhtn) New York City  
Columbia University, A.B., 1898.  
*European History, American History.*
- OSBORNE, EVELYN (P).....(Mhtn) New York City  
Columbia University, A.B., 1900; A.M., 1901.  
*Romance, English.*
- OSBURN, RAYMOND C. (P).....(Mhtn) New York City  
Ohio State University, B.S., 1898; M.S., 1900.  
*Zoology, Physiology.*
- OTIS, WILLIAM BRADLEY.....Des Moines, Iowa  
Iowa College, A.B., 1901.  
Columbia University, A.M., 1904.  
*English, European History.*
- OWEN, FAYETTE TIMOTHY (P).....Franklin, Neb.  
Doane College, A.B., 1896; A.M., 1904.  
*Chemistry, Physical Chemistry, Physics.*
- PACK, FRED JAMES.....Woods Cross, Utah  
University of Utah, B.S., 1904.  
*Geology, Mineralogy.*
- PAGE, RALPH BARLOW.....Toronto Junction, Canada  
University of Toronto, A.B., 1897; A.M., 1901.  
*European History, American History, International Law, Political Economy and Finance.*
- PANARONI, ALFRED G. (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1902.  
*Romance, English.*
- PARKER, RUTH LOUISE (P).....(Bklyn) New York City  
Vassar College, A.B., 1901.  
*Comparative Literature, English.*
- PARSONS, PHILIP ARCHER (P).....Plainfield, N. J.  
Christian University, A.B., 1904.  
*Sociology and Statistics, Political Economy and Finance.*
- PATCH, HARRIET ELIZA.....East Gloucester, Mass.  
Smith College, B.L., 1897.  
*Comparative Literature, English, German.*
- PAUL, HARRY G.....Peoria, Ill.  
University of Michigan, A.B., 1897.  
University of Chicago, A.M., 1901.  
*English, Education.*
- PAYNE, FRANK OWEN (P).....Glen Cove, N. Y.  
Bachtel College, B.S., 1884; M.S., 1894.  
*Zoology.*
- PEARCE, HENRY ARTHUR.....Plainfield, N. J.  
Union University, A.B., 1903.  
*Sociology and Statistics, European History, Philosophy.*
- PEGRAM, ANNIE M.....Durham, N. C.  
Trinity College, A.B., 1896; A.M., 1901.  
*Mathematics, Mechanics, Physics.*
- PERCIVAL, HAROLD SPENCER (P).....Corning, Cal.  
Leland Stanford, Jr. University, A.B., 1903.  
*Philosophy.*

- PERKINS, U. S. GRANT.....Barboursville, Ky.  
Union College, A. B., 1901.  
Drew Theological Seminary, B.D., 1904.  
*Greek, Latin, Hebrew.*
- PETERS, LOUIS EDGAR (P).....Englewood. N. J.  
Columbia University, A.B., 1904.  
*English.*
- PHETTEPLACE, THURSTON MASON.....Providence, R. I.  
Brown University, Ph.B., 1899; Mech.E., 1901.  
*Mechanical Engineering, Metallurgy, Mechanics.*
- PHILIP, MARY ISABEL (P).....Chateaugay, N. Y.  
Syracuse University, Ph.B., 1901  
*English, Education.*
- POOL, ETHEL MANTEE.....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Greek, Latin.*
- POTTER, LYDIA V. H. (P).....(Mhtn) New York City  
University of Michigan, A.B., 1880.  
Columbia University, A.M., 1890.  
*Greek.*
- PRATHER, JOHN KIRKPATRICK.....(Mhtn) New York City  
University of Texas, B.S., 1897.  
*Geology, Mining, Chemistry.*
- PYLE, WILLARD R. (P).....(Br) New York City  
Michigan University, B.S., 1894.  
*Physics.*
- QUACKENBOS, GEORGE PAYN (P).....(Mhtn) New York City  
Columbia University, A.B., 1900; A.M., 1901.  
*Latin, Greek, Sanskrit.*
- QUACKENBUSH, LEOPOLD SCHUYLER (P).....(Mhtn) New York City  
Yale University, Ph.B., 1899.  
Columbia University, A.M., 1901.  
*Zoology.*
- QUIMBY, ERNEST SCOTT (P).....(Mhtn) New York City  
Wesleyan University, A.B., 1896.  
*English.*
- QUINN, JOSEPH ALEXANDER (P).....New Brunswick, N. J.  
*Chemistry.*
- RADIN, PAUL.....(Br) New York City  
College of the City of New York, A.B., 1902.  
*European History, Anthropology, Ancient History.*
- RAMSDELL, CHARLES WILLIAM.....Austin, Texas  
University of Texas, A.B., 1903; A.M., 1904.  
*American History, European History, International Law, Political Economy and Finance.*
- RANSOM, WILLARD GLIDDEN (P).....Ottawa, Kan.  
Cornell University, M.E., 1899.  
*Mechanical Engineering, Mechanics, Electrical Engineering.*
- RAUH, FLORENCE ETHEL (P).....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Political Economy and Finance, Political Philosophy.*
- RAUH, IDA (P).....(Mhtn) New York City  
*Political Economy and Finance.*
- RAY, FREDERICK MARKHAM (P).....Allen's Hill, N. Y.  
Oberlin College, A.B., 1904.  
*Chemistry, Mineralogy.*
- READ, THOMAS THORNTON (P).....Coltsneck, N. J.  
Columbia University, E.M., 1902.  
*Mining, Metallurgy, Geology.*
- REBER, JOHN.....(Br) New York City  
Seton Hall College, A.B., 1903.  
*Germanic, English.*

- REED, JAMES HAY, JR. (P).....Pittsburg, Pa.  
Princeton University, B.S., 1904.  
*Metallurgy, Chemistry.*
- REED, JOHN HOMER.....(Mhnt) New York City  
University of Minnesota, A.B., 1902.  
*European History, American History, Political Economy and Finance.*
- REILEY, KATHARINE CAMPBELL (P).....North Tarrytown, N. Y.  
Vassar College, A.B., 1891.  
Columbia University, A.M., 1900.  
*Latin, Greek.*
- RENNERT, ROSINA JULIA (P).....(Mhnt) New York City  
Columbia University, A.B., 1901; A.M., 1902.  
*Botany, Zoology.*
- RENSHAW, RAEMER REX.....Eugene, Oregon  
University of Oregon, B.S., 1902; M.S., 1903.  
*Organic Chemistry, Physical Chemistry, Physics.*
- REYNOLDS, GRACE POTTER.....Stamford, Conn.  
Smith College, A.B., 1904.  
*Physical Chemistry, Physics.*
- RIBLET, MARY VARIAN (P).....(Mhnt) New York City  
Columbia University, B.S., 1903.  
*English, Education.*
- RITTER, ALICE EMILY BORGFELDT (P).....(Bklyn) New York City  
Adelphi College, A.B., 1904.  
*English.*
- ROBINSON, CHARLES BUDD (P).....Pictou, N. S., Canada  
Dalhousie College, A.B., 1891.  
*Botany, Zoology.*
- ROBINSON, ROBERT (P).....(Mhnt) New York City  
College of the City of New York, B.S., 1900.  
*Philosophy, Psychology.*
- ROE, FREDERICK WILLIAM.....(Mhnt) New York City  
Wesleyan University, A.B., 1897.  
Columbia University, A.M., 1904.  
*English, Philosophy.*
- ROOME, WILLIAM HARRIS (P).....(Mhnt) New York City  
Columbia University, A.B., 1880; LL.B., 1882.  
*English, French.*
- ROSS, OLIVE CARTER.....Fairmont, W. Va.  
University of Nashville, A.B., 1890; A.M., 1891.  
*English, Education.*
- ROYCE, SARAH GRACE (P).....West Woodstock, Vt.  
Smith College, A.B., 1890.  
Columbia University, A.M., 1902.  
*Latin.*
- RUBINOWITZ, ELIAS NATHAN.....Philadelphia, Pa.  
Haverford College, A.B., 1903.  
*Semitics, Philosophy.*
- RUGGLES, VERNON DOUGLAS.....Halifax, N. S., Canada  
Dalhousie College, A.B., 1901; A.M., 1903.  
*Philosophy, Greek.*
- RUNTZ-REES, CAROLINE (P).....Greenwich, Conn.  
*Romance, Comparative Literature.*
- RUPPERSBERG, EMMA A.....Columbus, Ohio  
Ohio State University, B.S., 1891; M.S., 1896.  
*Physics, Education.*
- SAITO, DAIKICHI (P).....Okayama, Japan  
Imperial Academy, Japan, Ph.D., 1898.  
*Metallurgy.*

- SAKOLSKI, AARON MORTON (P).....Baltimore, Md.  
Syracuse University, Ph.B., 1902.  
*Political Economy and Finance, Sociology and Statistics, Administrative Law.*
- SAPIR, EDWARD.....(Mhtn) New York City  
Columbia University, A.B., 1904.  
*Germanic, Sanskrit.*
- SATTERWHITE, BENJAMIN OPPUTT.....Louisville, Ky.  
Louisville University, A.B., 1900.  
Princeton University, A.B., 1904.  
*English, Philosophy.*
- SAXE, BERNHARD DAVID (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1899.  
Columbia University, A.M., 1903.  
*Philosophy, Psychology, Education.*
- SCHAPIRO, JACOB SALWYN.....(Mhtn) New York City  
College of the City of New York, A.B., 1904.  
*European History, Political Economy and Finance.*
- SCHLOSBERG, SAMUEL (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1900.  
*English, Education.*
- SCHLOSS, BERRICK (P).....Pawtucket, R. I.  
Brown University, Ph.B., 1904.  
*Italian.*
- SCHULTZ, OSCAR THEODORE (P).....Mt. Vernon, Ind.  
Indiana University, A.B., 1897.  
Johns Hopkins University, M.D., 1903.  
*Zoology.*
- SCHULZE, HENRY HERMANN LOUIS.....Yonkers, N. Y.  
College of the City of New York, A.B., 1903.  
*Germanic, English.*
- SCHUYLER, ELMER (P).....(Bklyn) New York City  
Lafayette College, B.S., 1897; M.S., 1900.  
*Mathematics.*
- SCHUYLER, ROBERT LIVINGSTON.....(Mhtn) New York City  
Columbia University, A.B., 1903; A.M., 1904.  
*American History, European History, Political Economy and Finance.*
- SCHWARTZ, JOSEPH LOUIS.....(Mhtn) New York City  
College of the City of New York, A.B., 1904.  
*Philosophy, Education, Semitics.*
- SCOTT, CORA ARNOT (P).....(Mhtn) New York City  
Columbia University, A.B., 1900.  
*Physics, Mechanics.*
- SCOTT, GEORGE GILMORE (P).....(Mhtn) New York City  
Williams College, A.B., 1898; A.M., 1899.  
*Zoology, Physiology, Botany.*
- SEGAWA, IWAO.....Tokio, Japan  
Keiogijiku University, Japan (equiv. A.B.), 1903.  
*Political Economy and Finance, International Law, Sociology and Statistics.*
- SENIZA, FRANCES CATHERINE (P).....Hoboken, N. J.  
Columbia University, B.S., 1903.  
*Physics, Chemistry.*
- SEXTON, MARGARET.....Edgewater, N. J.  
Dickinson College, Ph.B., 1900; A.M., 1902.  
*Germanic, English.*
- SEYMOUR, ARTHUR T.....Orange, N. J.  
Cornell University, B.S., 1892.  
*Physics, Mechanics, Education.*



- SHA, KAI-FU (P).....Pung Chon, China  
Chinese Government (equiv. A.B.), 1895.  
*Political Economy and Finance.*
- SHAINWALD, RALPH LOUIS, Jr.....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Chemistry, Mechanical Engineering.*
- SHAMEL, CHARLES HARMONAS.....Taylorville, Ill.  
University of Illinois, B.S., 1890; M.S., 1891.  
University of Michigan, LL.B., 1893.  
*Mining, Geology.*
- SHEARER, ELIZABETH EICHELBERGER (P).....(Mhtn) New York City  
Mount Holyoke College, A.B., 1896.  
*Latin, Greek, Archaeology.*
- SHELANDER, ASAPH ROBERT.....Whitehall, Mich.  
Augustana College, A.B., 1899.  
*Philosophy, Psychology, European History.*
- SHEPARD, CHARLES NORMAN (P).....(Mhtn) New York City  
Trinity College, A.B., 1891; A.M., 1894.  
Union Theological Seminary, B.D., 1895.  
*Semitics.*
- SHERMAN, LUCY FIDELIA (P).....Peekskill, N. Y.  
Columbia University, A.B., 1903.  
*Greek, Latin.*
- SHIBUTANI, NAONOSUKI (P).....Osaka, Japan  
Doshisha College, Japan (equiv. A.B.), 1903.  
*Political Economy and Finance.*
- SHIELD, WALLACE BATES (P).....Kansas City, Mo.  
Ohio State University, A.B., 1898.  
Kansas City School of Law, LL.B., 1902.  
*International Law, Constitutional Law, Administrative Law, Political Economy and Finance.*
- SICELOFF, LEWIS PARKER.....Fayette, Missouri  
Central College, A.B., 1900.  
*Mathematics, Mechanics, Education.*
- SILNER, LAZARUS PHENIUS.....Montreal, Canada  
Queens College, Canada, B.S., 1902.  
*Geology, Palaeontology, Metallurgy.*
- SIMKIN, ROBERT LOUIS (P).....Scarborough, N. Y.  
*Sociology and Statistics.*
- SMALL, LOTTIE LUELLA.....Auburn, Me.  
University of Maine, A.B., 1904.  
*Germanic, English.*
- SMEDLEY, ARTHUR COX (P).....Cheyney, Pa.  
Swarthmore College, B.S., 1898.  
*Chemistry, Mineralogy.*
- SMETANKA, JAROSLAV (P).....(Mhtn) New York City  
Gymnasium Kolin, Austria (equiv. A.B.), 1899.  
Columbia University, A.M., 1904.  
*American History, European History, Education.*
- SMITH, ALEXANDER GODFREY.....(Bklyn) New York City  
Columbia University, A.M., 1902.  
*Psychology, Education.*
- SNIDER, GUY EDWARD (P).....Des Moines, Iowa  
University of Wisconsin, B.L., 1901.  
University of Missouri, A.M., 1902.  
*Political Economy and Finance, International Law, Political Philosophy.*
- SNIVELY, HARRY NORMAN.....Waynesboro, Pa.  
Leland Stanford, Jr. University, A.B., 1904.  
*Geology, Metallurgy, Mineralogy.*

- SNOWDEN, ALICE EDDY.....(Q) New York City  
Michigan State Normal College, A.B., 1904.  
*Latin, German.*
- SNOWDEN, YATES (P).....Charleston, S. C.  
*Sociology and Statistics, Political Economy and Finance, American History, European History.*
- SOBEL, ARTHUR (P).....(Mhntn) New York City  
*Sociology and Statistics, Political Economy and Finance.*
- SOMERS, HAROLD (P).....(Bklyn) New York City  
Polytechnic Institute, Brooklyn, A.B., 1902.  
Columbia University, A.M., 1903.  
*Comparative Literature, Philosophy.*
- SPECK, FRANK GOULDSMITH.....Hackensack, N. J.  
Columbia University, A.B., 1904.  
*Anthropology, Semitic.*
- SPENCER, CARITA.....(Mhntn) New York City  
Columbia University, A.B., 1902.  
*Romance, European History.*
- STAIR, BIRD WILLIAM.....Buck Creek, Ind.  
Purdue University, B.S., 1899; M.S., 1901.  
*English, Comparative Literature.*
- STANGLAND, ROBERT SEDGWICK (P).....Morton, N. Y.  
Columbia University, Mech.E., 1904.  
*Civil Engineering, Mechanical Engineering.*
- STARR, FREDERICK.....(Mhntn) New York City  
College of the City of New York, B.S., 1899.  
*Romance, German.*
- STAUB, ALBERT WILLIAM (P).....Titusville, Pa.  
Oberlin College, A.B., 1904.  
*Philosophy.*
- STAUNTON, HENRY CAPEN (P).....(Mhntn) New York City  
Columbia University, A.B., 1899; A.M., 1903.  
General Theological Seminary, B.D., 1902.  
*Psychology, Philosophy.*
- STEBBINS, CHARLES MAURICE.....(Bklyn) New York City  
Amherst College, A.B., 1892; A.M., 1903.  
*English, Comparative Literature, Education.*
- STEEVES, HARRISON ROSS.....(Mhntn) New York City  
Columbia University, A.B., 1903; A.M., 1904.  
*English, Comparative Literature.*
- STEPANEK, BEATRICE (P).....Mt. Vernon, N. Y.  
Wellesley College, A.B., 1895.  
Columbia University, A.M., 1902.  
*Greek, Latin.*
- STEPANIANZ, ENOCH AVEDIR DER.....Karakala Karr, Russia  
Euphrates College (equiv. A.B.), 1892.  
*Semitics.*
- STEWART, LILLIAN.....Northfield, Minn.  
Carleton College, B.L., 1895.  
*Physics, Botany, Physical Chemistry.*
- STEWART, MAUDE GERTRUDE (P).....Northfield, Minn.  
Carleton College, B.L., 1888.  
*Physics, Physical Chemistry.*
- STOCKARD, CHARLES RUPERT.....Columbus, Miss.  
Mississippi A. & M. College, B.S., 1899; M.S., 1902.  
*Zoology, Physiology, Botany.*
- STONE, CLAUDE MORTIMER.....Hamilton, N. Y.  
Colgate University, A.B., 1904.  
*English, Education.*

- STONE, ISABELLE (P).....Poughkeepsie, N. Y.  
Wellesley College, A.B., 1890.  
University of Chicago, M.S., 1896; Ph.D., 1897.  
*Physics.*
- STONE, MARGARET HOLMES.....(Mhtn) New York City  
Columbia University, A.B., 1904.  
*Botany, Economics.*
- STONEBERG, PHILIP JOHN.....Bishop Hall, Ill.  
Knox College, A.B., 1899; A.M., 1901.  
*American History, European History, Sociology and Statistics, Political Economy and Finance.*
- STUART, DONALD CLIVE.....Detroit, Mich.  
University of Michigan, A.B., 1903; A.M., 1904.  
*Romance, Comparative Literature.*
- SUDZUKI, JHUSHOW.....Tokio, Japan  
Semmon Gakko, Tokio (equiv. A.B.), 1902.  
*Political Economy and Finance, Sociology and Statistics, Constitutional Law.*
- SUZUKI, ICHMOSUKE.....Tokio, Japan  
Keiogiziku, Tokio (equiv. A.B.), 1903.  
*Political Economy and Finance, Sociology and Statistics, International Law.*
- SWAN, EVELYN (P).....(Mhtn) New York City  
Columbia University, B.S., 1903; A.M., 1904.  
*European History, Ancient History.*
- TAJIMA, SUSUMU (P).....Isobe, Japan  
Meiji Gakkwin, Japan (equiv. A.B.), 1899.  
*Philosophy, Psychology.*
- TAKATA, SHIRO.....Tokio, Japan  
Kôtô Shogio Gakko (equiv. A.B.), 1902.  
*Political Economy and Finance, International Law, Sociology and Statistics.*
- TAMBLYN, ALBERT TERRY.....Rockville, Md.  
Colgate University, A.B., 1903.  
*Sociology and Statistics, European History, Philosophy.*
- TAMBLYN, GEORGE OLIVER.....Rockville, Md.  
Colgate University, A.B., 1903.  
*Sociology and Statistics, European History, Philosophy.*
- TANZER, HELEN H. (P).....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Latin.*
- TARR, PHILIP HYATT.....Mt. Vernon, Ohio  
Western Reserve University, Ph.B., 1902.  
Columbia University, A.M., 1904.  
*Philosophy, Psychology, Education.*
- TAYLOR, JOHN WARNER.....Utica, N. Y.  
Columbia University, A.B., 1903.  
*English, Comparative Literature.*
- TERRETT, WILDRED.....Clinton, N. Y.  
Wells College, A.B., 1904.  
*Physics, Education.*
- THALLON, IDA CARLETON.....(Mhtn) New York City  
Vassar College, A.B., 1897; A.M., 1901.  
*Classical Archaeology, Greek.*
- THOMAS, JOHN WESLEY (P).....(Bklyn) New York City  
Dickinson College, A.B., 1881; A.M., 1884.  
Syracuse University, Ph.D., 1892.  
*Romance.*
- THOMAS, MALCOLM GRAEME (P).....Pine Plains, N. Y.  
Union College, A.B., 1898; A.M., 1902.  
*European History, American History.*

- THOMPSON, HOLLAND (P).....(Mhntn) New York City  
University of North Carolina, Ph.B., 1895.  
Columbia University, A.M., 1900.  
*Political Economy and Finance, Sociology and Statistics, American History.*
- THORNDIKE, EVERETT LYNN (P).....(Mhntn) New York City  
Wesleyan University, A.B., 1902.  
Columbia University, A.M., 1903.  
*European History, American History, Roman Law and Comparative Jurisprudence.*
- TINTNER, BENJAMIN ABNER.....(Mhntn) New York City  
Columbia University, A.B., 1903.  
*Semitics, Philosophy, Latin.*
- TODD, JOHN ROBINSON.....(Mhntn) New York City  
Dickman College, A.B., 1887; A.M., 1890.  
Drew Theological Seminary, B.D., 1887.  
*American History, European History, International Law.*
- TOWLE, ELIZABETH WILLIAMS (P).....(Bklyn) New York City  
Bryn Mawr College, A.B., 1898; A.M., 1899.  
*Zoology.*
- TRIER, BETTY.....(Bklyn) New York City  
Columbia University, A.B., 1904.  
*Mathematics, Astronomy, Mechanics.*
- TRIPP, MYRON OWEN (P).....Yonkers, N. Y.  
Northern Indiana Normal School, B.S., 1895.  
Indiana University, A.B., 1901.  
*Mathematics, Mechanics, Education.*
- TROWBRIDGE, WILLIAM WALDO.....West Newton, Mass.  
Massachusetts Institute of Technology, B.S., 1904.  
*Mining, Geology.*
- TRYON, HAROLD HARRISON.....Cynwyd, Pa.  
University of Pennsylvania, A.B., 1900.  
*European History, Greek.*
- TSUKAHARA, MASATSUGU (P).....Tokio, Japan  
University of Tokio, Ph.D., 1897.  
*Psychology.*
- TYLER, WILLIAM ROGERS.....(Mhntn) New York City  
Columbia University, C.E., 1904.  
*Civil Engineering, Mechanics, Astronomy.*
- TYNG, ELIZABETH McJIMSEY (P).....(Bklyn) New York City  
Cornell University, A.B., 1903.  
Columbia University, A.M., 1904.  
*Latin.*
- UNDERWOOD, JOSEPH HARDING.....Vinton, Iowa  
Western College, A.B., 1902.  
State University of Iowa, A.M., 1904.  
*Sociology and Statistics, Political Economy and Finance, Political Philosophy.*
- URBAN, LIEB ROY.....Bernardsville, N. J.  
Princeton University, A.B., 1900.  
*Philosophy, Greek.*
- VAN INGEN, EDITH GIFFORD (P).....(Bklyn) New York City  
Columbia University, A.B., 1904.  
*English.*
- VEDDER, JOHN N. (P).....Schenectady, N. Y.  
Union College, A.B., 1895; A.M., 1897.  
*Mathematics, Mechanics, Physics.*
- VENTRES, ADELAIDE BRAINERD (P).....Bloomfield, N. J.  
Smith College, A.B., 1888.  
*Latin.*
- VON SHOLLY, BENJAMIN RUDOLF.....(Q) New York City  
Columbia University, A.B., 1903.  
*Chemistry, Mineralogy.*



- WADA, RINKUMA (P).....Kioto, Japan  
Imperial University, Tokio (equiv. A.B.), 1899.  
*Psychology*.
- WAITE, MINNIE ESTELLE (P).....Watertown, N. Y.  
Vassar College, A.B., 1903.  
State Normal College, Albany, Pd.B., 1895.  
*Greek, Latin*.
- WALDSTEIN, ABRAHAM GALSMAN.....(Mhtn) New York City  
Harvard University, A.B., 1902.  
*Semitics, Philosophy, French*.
- WALTON, SOPHIE T. (P).....(Mhtn) New York City  
*Comparative Literature*.
- WANG, CHUNG YU.....Canton, China  
Tientsin University, China, B.S., 1899.  
Columbia University, A. M., 1904.  
*Geology, Mining, Metallurgy*.
- WARNER, DAVID VICTOR.....Pugwash, N. S., Canada  
Kings College, N. S., A.B., 1902.  
*Sociology and Statistics, Political Economy and Finance, European History*.
- WARREN, CONSTANCE.....Albany, N. Y.  
Vassar College, A.B., 1904.  
*American History, Education, European History*.
- WATERHOUSE, GEORGE BOOKER.....Nottingham, England  
London University, B.S., 1903.  
*Metallurgy, Chemistry, Geology*.
- WEAR, FRANK LUCIAN.....Fort Worth, Texas  
Trinity University, A.B., 1899.  
Cumberland University, B.D., 1902.  
*English, Greek, Anthropology*.
- WELCH, ALBERTA MAUDE (P).....(Mhtn) New York City  
Wellesley College, A.B., 1895.  
*Germanic*.
- WELLS, FREDERIC LYMAN.....(Mhtn) New York City  
Columbia University, A.B., 1903; A.M., 1904.  
*Psychology, Anthropology, German*.
- WELLS, GUY FRED.....(Mhtn) New York City  
*Sociology and Statistics*.
- WESCOTT, ALLAN FERGUSON.....Alexandria Bay, N. Y.  
Brown University, Ph.B., 1903; A.M., 1904.  
*English, Education*.
- WHICHER, GEORGE MEASON.....(Bklyn) New York City  
Iowa College, A.B., 1882.  
Columbia University, A.M., 1904.  
*Latin, Greek*.
- WHITAKER, WILLIAM ASBURY, JR.....Winston-Salem, N. C.  
University of North Carolina, Ph.B., 1904.  
*Chemistry, Metallurgy*.
- WHITE, ALAIN CAMPBELL.....Litchfield, Conn.  
Harvard University, A.B., 1902; A.M., 1904.  
*Comparative Literature, Italian*.
- WHITE, HENRY (P).....(Mhtn) New York City  
*Political Economy and Finance*.
- WHITNEY, DAVID DAY.....East Brookfield, Vt.  
Wesleyan University, A.B., 1904.  
*Zoology, Physiology, Botany*.
- WHITNEY, JOHN BOARDMAN.....Buffalo, N. Y.  
Hobart College, B.S., 1904.  
*Chemistry, Bacteriology*.
- WIANT, MABEL HUNTER (P).....Parkersburgh, W. Va.  
Woman's College of Baltimore, A.B., 1903.  
*English, Education*.

- WICK, JEANNETTE M. .... (Mhtn) New York City  
Columbia University, A.B., 1904.  
*Germanic, European History.*
- WIEN, FRANCIS (P) .... (Mhtn) New York City  
College of the City of New York, A.B., 1900.  
*Romance, European History.*
- WILCOX, ETHEL DODGE .... Yonkers, N. Y.  
Columbia University, A.B., 1903.  
*Sociology and Statistics, Political Economy and Finance, Political Philosophy.*
- WILLARD, HELEN CAROLINE .... (Mhtn) New York City  
Knox College, A.B., 1898.  
*English, European History.*
- WILLIAMS, JOSEPH ALFRED (P) .... St. Louis, Mo  
Washington University, A.B., 1902.  
Nevada State University, A.M., 1903.  
*Philosophy, Education, Sociology and Statistics.*
- WILSON, EDITH HARRIET .... (Mhtn) New York City  
Lake Forest College, A.B., 1900.  
*English, Education.*
- WILSON, JANE STEDMAN (P) .... (Mhtn) New York City  
Lake Forest University, A.B., 1888.  
*Latin.*
- WILSON, JOHN HOWARD (P) .... Yonkers, N. Y.  
Polytechnic Institute, A.B., 1895.  
*Geology, Anthropology.*
- WILSON, PEARL CLEVELAND. .... (Mhtn) New York City  
Yassar College, A.B., 1904.  
*Greek, Latin.*
- WILSON, STANLEY KIDDER (P) .... (Mhtn) New York City  
Columbia University, A.B., 1902.  
Harvard University, A.M., 1903.  
*English, Philosophy.*
- WILSON, WARREN H. .... (Bklyn) New York City  
Oberlin College, A.B., 1890; A.M., 1894.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- WING, DAVID LAFOREST. .... Bangor, Me.  
Massachusetts Institute of Technology, B.S., 1898.  
*Sociology and Statistics, Political Economy and Finance, American History.*
- WOHLFARTH, AMELIA (P) .... (Mhtn) New York City  
Columbia University, A.B., 1899; A.M., 1900.  
*Germanic.*
- WOLD, EMMA MARIE. .... Eugene, Oregon  
University of Oregon, A.B., 1894; A.M., 1897.  
*Botany, Zoology.*
- WOLF, LOUISE. .... (Mhtn) New York City  
Columbia University, A.M., 1904.  
*Germanic.*
- WOLFF, GERTRUDE L. (P) .... (Mhtn) New York City  
Columbia University, A.B., 1896.  
*Latin, Italian.*
- WOMACK, MARY DOUGLASS (P) .... (Mhtn) New York City  
Adelphi College, B.S., 1899.  
*Botany.*
- WOOD, ELEANOR DENISTOUN .... (Mhtn) New York City  
Bryn Mawr College, A.B., 1902.  
*Philosophy, Sociology and Statistics.*
- WOODHULL, MARIANNE. .... (Mhtn) New York City  
Smith College, A.B., 1887.  
*Comparative Literature, English.*

- WOODRUFF, LORANDE LOSS.....Williamstown, Mass.  
Columbia University, A.B., 1901; A.M., 1902.  
*Zoology, Physiology.*
- YAMANOUCHI, SHIGEO.....Tokio, Japan  
Higher Normal School, Japan (equiv. A.B.), 1899.  
*Botany, Zoology.*
- YATSU, NAOHIDÉ.....Tokio, Japan  
Imperial University, Japan (equiv. A.B.), 1900.  
*Zoology, Botany, Physiology.*
- YEN, CHIN YUNG (P).....Tientsin, China  
Tientsin University, A.B., 1901.  
*Constitutional Law.*
- YOKATA, SEIMATSU.....Tokio, Japan  
Waseda University, Japan (equiv. A.B.), 1903.  
*Political Economy and Finance, Sociology and Statistics, International Law.*
- YOSHI-SUKE, SAMUEL SACON.....Tokio, Japan  
Kaio-Gigaku Gakko, Japan (equiv. A.B.), 1884.  
*Semitics.*
- YAGGY, SAMUEL EDWARD.....Bellmore, N. Y.  
Cornell University, A.B., 1895.  
*Philosophy, European History, Sociology and Statistics.*
- ZEITLIN, JACOB.....(Mhnt) New York City  
Columbia University, A.B., 1904.  
*English, German.*
- ZINSSER, HANS (P).....(Mhnt) New York City  
Columbia University, A.B., 1899; M.D., 1903.  
*Zoology.*

In addition to the above 74 candidates for the degree of Master of Arts and 24 for the degree of Doctor of Philosophy are registered under the Faculty of Philosophy, with Education as their major subject. The names of these candidates appear in the list of graduate students in Teachers College, *cf.* pp. 394-395.

## SUMMARY

STUDENTS PRIMARILY REGISTERED UNDER THESE FACULTIES.... 682

STUDENTS FROM OTHER FACULTIES OF THE UNIVERSITY, CANDI-  
DATES FOR THE DEGREES OF A.M., LL.M., OR PH.D.:

From the School of Law.....	92
From the College of Physicians and Surgeons.....	28
From the Schools of Applied Science.....	14

134

Total..... 816

## BARNARD COLLEGE

### TRUSTEES

SILAS B. BROWNELL, LL.D., *Chairman*

Mrs. A. A. ANDERSON, *Vice-Chairman*

FREDERICK S. WAIT, *Clerk*

GEORGE A. PLIMPTON, *Treasurer*

Miss HELEN DAWES BROWN	SETH LOW, LL.D.
Mrs. WILLIAM C. BROWNELL	HAMILTON W. MABIE, L.H.D.
Mrs. FRANK G. BRYSON	Mrs. ALFRED MEYER
NICHOLAS MURRAY BUTLER, Ph.D., LL.D.	ALBERT G. MILBANK
GEN. HORACE W. CARPENTIER	Mrs. HENRY N. MUNN
Mrs. JOSEPH H. CHOATE	Mrs. H. FAIRFIELD OSBORN
Rev. WILLIAM M. GROSVENOR, D.D.	Mrs. GEORGE HAVEN PUTNAM
FREDERIC B. JENNINGS	EDWARD W. SHELDON
FRANKLIN B. LORD	Mrs. JAMES S. T. STRANAHAN
	Mrs. JAMES TALCOTT

### STANDING COMMITTEES

1904

#### Executive Committee

SILAS B. BROWNELL, LL.D., *Chairman*

Mrs. A. A. ANDERSON, *Vice-Chairman*

FREDERICK S. WAIT, *Clerk*

NICHOLAS MURRAY BUTLER, LL.D.	Mrs. HENRY N. MUNN
SETH LOW, LL.D.	GEORGE A. PLIMPTON
ALBERT G. MILBANK	EDWARD W. SHELDON

#### On Finance

Mr. LORD, *Chairman*

Mr. JENNINGS	Mr. MILBANK
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#### On Buildings and Grounds

Mrs. OSBORN, *Chairman*

Mrs. PUTNAM	Mrs. BRYSON
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THE PRESIDENT (ex-officio)

#### On Education

Mrs. MEYER, *Chairman*

Mr. LOW	Dr. GROSVENOR
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THE PRESIDENT (ex-officio)



## OFFICERS OF INSTRUCTION

## Officers of the Faculty

- LAURA DRAKE GILL, A.M. . . . . *Dean and ex-officio Member of the University Council*  
 MORTIMER LAMSON EARLE, Ph.D. . . . . *Secretary*  
 JAMES HARVEY ROBINSON, Ph.D. . . . . *Elected Delegate to the University Council (term expires 1906)*

## The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*

LAURA DRAKE GILL, A.M., *Dean*

- EDWIN R. A. SELIGMAN, Ph.D., LL.D. . . . . *McVickar Professor of Political Economy*  
 HERBERT L. OSGOOD, Ph.D. . . . . *Professor of History*  
 EDWARD DELAVAN PERRY, Ph.D., LL.D. . . . . *Fay Professor of Greek*  
 GEORGE RICE CARPENTER, A.B. . . . . *Professor of Rhetoric and English Composition*  
 FRANKLIN HENRY GIDDINGS, Ph.D., LL.D. . . . . *Professor of Sociology*  
 JOHN B. CLARK, Ph.D., LL.D. . . . . *Professor of Political Economy*  
 JAMES RIGNALL WHEELER, Ph.D. . . . . *Professor of Greek*  
 FRANK N. COLE, Ph.D. . . . . *Professor of Mathematics*  
 JAMES HARVEY ROBINSON, Ph.D. . . . . *Professor of History*  
 CALVIN THOMAS, LL.D. . . . . *Gebhard Professor of the Germanic Languages and Literatures*  
 CARLO LEONARDO SPERANZA, A.M., B. ès L. . . . . *Professor of Italian*  
 WILLIAM P. TRENT, M.A., LL.D. . . . . *Professor of English Literature*  
 MORTIMER LAMSON EARLE, Ph.D. . . . . *Professor of Classical Philology*  
 HERBERT GARDINER LORD, A.M. . . . . *Professor of Philosophy*  
 NELSON GLENN MCCREA, Ph.D. . . . . *Professor of Latin*  
 LIVINGSTON FARRAND, A.M., M.D. . . . . *Professor of Anthropology*  
 BENJAMIN D. WOODWARD, Ph.D. . . . . *Professor of the Romance Languages and Literatures*  
 HENRY E. CRAMPTON, Ph.D. . . . . *Professor of Zoölogy*  
 WILLIAM TENNEY BREWSTER, A.M. . . . . *Adjunct Professor of English*  
 CHARLES KNAPP, Ph.D. . . . . *Adjunct Professor of Classical Philology*  
 HENRY L. MOORE, Ph.D. . . . . *Adjunct Professor of Political Economy*  
 HERBERT MAULE RICHARDS, S.D. . . . . *Adjunct Professor of Botany*  
 MARGARET E. MALTBY, Ph.D. . . . . *Adjunct Professor of Physics*  
 LOUIS AUGUSTE LOISEAUX, B.S. . . . . *Adjunct Professor of the Romance Languages and Literatures*

## Standing Committees of the Faculty

COMMITTEE ON CURRICULUM AND SCHEME OF ATTENDANCE: The Dean, *ex-officio*, chairman, Professors Trent, Earle, Woodward, and Maltby.

COMMITTEE ON ADMISSION: Professors Earle, *chairman*, Brewster, and Richards.

COMMITTEE ON SCHOLARSHIPS: The Dean, *ex-officio*, *chairman*, Professors Robinson and Knapp.

COMMITTEE ON HONORS: Professors Lord, *chairman*, Cole, and Knapp.

COMMITTEE ON STUDENT ORGANIZATIONS: Professors Crampton, *chairman*, Moore, and Miss Gildersleeve.

### Other Officers of Instruction

WILLIAM ROBERT SHEPHERD, Ph.D.....	<i>Instructor in History</i>
<sup>1</sup> JAMES T. SHOTWELL, Ph.D.....	<i>Instructor in History</i>
GEORGE WILLIS BOTSFORD, Ph.D.....	<i>Instructor in Ancient History</i>
ALVIN SAUNDERS JOHNSON, Ph.D.....	<i>Instructor in Economics and Social Science</i>
MARIE REIMER, Ph.D.....	<i>Instructor in Chemistry</i>
RUDOLF TOMBO, Sr., Ph.D.....	<i>Tutor in the Germanic Languages and Literatures</i>
EDWARD KASNER, Ph.D.....	<i>Tutor in Mathematics</i>
HENRY BARGY, A.M.....	<i>Tutor in the Romance Languages and Literatures</i>
WILLIAM FINDLAY, Ph.D.....	<i>Tutor in Mathematics</i>
ADAM LEROY JONES, Ph.D.....	<i>Tutor in Philosophy</i>
WILHELM ALFRED BRAUN, Ph.D....	<i>Tutor in the Germanic Languages and Literatures</i>
WILLIAM E. KELLICOTT, Ph.D.....	<i>Tutor in Zoölogy</i>
TRACY ELLIOT HAZEN, Ph.D.....	<i>Tutor in Botany</i>
VIRGINIA C. GILDERSLEEVE, A.M.....	<i>Tutor in English</i>
GERTRUDE M. HIRST, Ph.D.....	<i>Tutor in Classical Philology</i>
RICHARD THAYER HOLBROOK, Ph.D.....	<i>Tutor in the Romance Languages and Literatures</i>
ELEANOR KELLER, A.B.....	<i>Tutor in Chemistry</i>
HARRIET BROOKS, M.A.....	<i>Tutor in Physics</i>
GEORGE PHILIP KRAPP, Ph.D.....	<i>Lecturer in English</i>
ELSIE CLEWS PARSONS, Ph.D.....	<i>Lecturer in Sociology</i>
STEPHEN A. HURLBUT, A.M.....	<i>Lecturer in Classical Philology</i>
<sup>1</sup> IDA H. OGILVIE, Ph.D.....	<i>Lecturer in Geology</i>
LOUISE ROPES LOOMIS, A.M.....	<i>Lecturer in History</i>
CHARLES A. BEARD, A.M.....	<i>Lecturer in History</i>
PAULINE HAMILTON DEDERER, A.B.....	<i>Assistant in Zoölogy</i>
ALICE A. KNOX, A.B.....	<i>Assistant in Botany</i>
ANNINA PERIAM, A.M.....	<i>Assistant in the Germanic Languages and Literatures</i>
MARGARET E. BALL, A.M.....	<i>Assistant in English</i>
FRANK E. WARD.....	<i>Organist</i>

<sup>1</sup> Absent on leave.

**Officers of Administration**N. W. LIGGETT, A.B., *Bursar*ANNA E. H. MEYER, A.B., *Secretary*AGNES OPDYKE, A.B., *Acting Registrar*FREDERICK A. GOETZE, *Superintendent of Buildings and Grounds*

For other officers of the University who may give instruction to students of Barnard College, consult the several departmental statements.

**GENERAL STATEMENT**

In 1883 the Trustees of Columbia College offered degrees to women who should be able to pass the necessary examinations, without, however, providing instruction for them. The resulting system, called *The Collegiate Course for Women*, proved unsatisfactory to both parties. It was found necessary to provide instruction for women which should be identical with or equivalent to that provided by Columbia for men, and in 1889 Barnard College was organized with this purpose in view.

For eleven years it<sup>7</sup> duplicated for women as far as possible the curriculum of Columbia College, and also registered for graduate work under the University Faculties women who held the bachelor's degree from institutions of good standing. Its instructors were members of the University staff. Examinations for entrance to Barnard College, those given in course, and those for degrees, were conducted by Columbia University. During the first three undergraduate years separate instruction was given to women; in the senior year they were admitted to certain courses in the University. Graduate students attended many courses at Columbia University under the Faculties of Philosophy and Political Science. Under the Faculty of Pure Science, lecture courses only were open at the University, laboratory work being done at Barnard College.

However, Barnard's numerical growth made inappropriate the informal arrangement for instruction which was the natural method at the outset. Its students grew to form a considerable fraction of the total number of undergraduates under the care of Columbia instructors, and the graduates registered through Barnard began to have an appreciable effect upon the University statistics. It therefore became necessary to recognize formally the status which had gradually come into existence, and accordingly an agreement was entered into by which Barnard was included in the University system. Its experience in relation to Columbia has differed widely from that of any other affiliated college in relation to its university. The gradual *rapprochement* consummated in the agreement signed in January, 1900, has proceeded without check. Barnard is an independent college for women, with a corporation and a faculty of its own, vested with all the powers commonly belonging to such bodies. At the same time,

it shares the library, the instruction, and the degrees of Columbia University.

A more exact idea of the relations between Barnard College and Columbia University is given by the following *résumé* of the agreement above mentioned.

According to the agreement made January 19, 1900, between the Trustees of Columbia University and Barnard College, for the purpose of incorporating Barnard College, a college for women, in the educational system of the University, it is provided:

That the President of the University shall be, *ex-officio*, President of Barnard College and a Trustee of Barnard College. He shall preside at the meetings of the Faculty of Barnard College, and shall have general supervision and direction of the educational administration of such College, as in the other schools of the University.

That the internal administration of Barnard College shall be conducted by a Dean, who shall be appointed by the President of the University, by and with the advice and consent of the Trustees of Barnard College. In the absence of the Dean, an Acting Dean may be appointed by the President.

That Barnard College shall be represented in the University Council of Columbia University by its Dean, who shall have the right to vote in the University Council upon all questions. The Faculty of Barnard College shall consist of the President, the Dean, and all the professors on the staff of the University who give instruction in Barnard College.

That Barnard College shall provide for and maintain such officers of instruction as may, from time to time, be agreed on. Such officers shall be nominated by the Dean of Barnard College, with the approval of the Trustees of Barnard College and of the President of the University, and shall be appointed and reappointed by the University according to its custom. Their standing shall be the same in all respects as that of other like officers in the University. For all services rendered in the University by officers so appointed an equivalent amount of service shall be rendered in Barnard College by other officers of the University of like grade, as may be determined from time to time, with the consent of the officers concerned, by the Dean of the College and the President of the University.

That members of the Faculty of Barnard College may be either men or women.

That, on and after July 1, 1904, all of the instruction for women leading to the degree of Bachelor of Arts shall be given separately in Barnard College. Barnard College will assume as rapidly as possible all of the instruction for women in the senior year, without regard to the time limit contained in this section, and undertakes to maintain every professorship established at its instance, so long as the services of the incumbent thereof or an equivalent therefor shall be rendered in Barnard College; and when Barnard College has adequately provided for its undergraduate work, it will, as its means allow, establish ad-



ditional professorships in the University, upon foundations providing for courses which shall be open to men and women, to the end that opportunities for higher education may be enlarged for both men and women.

That the University will accept women who have taken their first degree, on the same terms as men as students of the University, and as candidates for the degrees of Master of Arts and Doctor of Philosophy under the Faculties of Philosophy, Political Science, and Pure Science, in such courses as have been or may be designated by these Faculties, with the consent of those delivering the courses, and will make suitable provision for the oversight of such women. The University will confer the degree of Bachelor of Arts upon the students of Barnard College who shall have satisfactorily fulfilled in Barnard College the requirements of the University Statutes for that degree. The courses in Barnard College leading to the degree of Bachelor of Arts shall be determined and administered by its own Faculty, and all examinations for admission to Barnard College and in course shall be conducted under the authority of the Faculty of Barnard College. The diploma shall be signed by the President of the University and by the Dean of Barnard College. The degree of Bachelor of Arts conferred upon the graduates of Barnard College shall be maintained at all times as a degree of equal value with the degree of Bachelor of Arts conferred upon the graduates of Columbia College. The equivalency of the two degrees shall be maintained in such manner as the University Council may prescribe.

That, so long as this agreement is in force, Barnard College shall grant no degrees. It shall retain the right to grant certificates to students not candidates for a degree, and it shall exercise all other corporate rights and powers which are not delegated to the University by this agreement. But this agreement shall not be deemed a surrender by Barnard College of any powers conferred upon it by charter.

That Barnard College shall retain its separate corporate organization, and that the Trustees of Barnard College shall continue to provide for the financial support thereof.

That the library of the University shall be open to all women students of the University and of Barnard College upon the same terms as to men.

By the terms of an agreement between Columbia University and Barnard and Teachers Colleges, students of Teachers College are permitted to attend courses in Barnard College. This institution offers reciprocal advantages to the students of Barnard College. Courses which are counted toward a Teachers College diploma and are open to seniors in Columbia College are also open to seniors of Barnard College.

## ADMISSION

The Committee on Admission has charge of everything relating to this subject.

The general regulations for admission are the same as those for Columbia College, see page 217.

Every candidate for admission to Barnard College, either to the freshman class or to a special course, is required at the entrance examinations to offer subjects amounting to fifteen (15) points<sup>1</sup> as indicated below.

The candidate *must* offer

	COUNTING IN POINTS
Elementary Latin (page 204) .....	4
Elementary Mathematics (page 205) .....	3
English (page 197) .....	3

The candidate may offer any of the following subjects without other restriction than that to offer an advanced subject will involve offering the corresponding elementary subject as well:

	COUNTING IN POINTS
Elementary Greek (page 201) .....	3
Elementary History (page 202) .....	2
Intermediate French (page 199) .....	1
Intermediate German (page 201) .....	1
<sup>2</sup> Advanced Greek (page 202) .....	1
<sup>2</sup> Advanced History (page 203) .....	1
<sup>2</sup> Advanced Latin (page 204) .....	1
Advanced Mathematics (page 205) .....	1
<sup>2</sup> Advanced Physics (page 207) .....	1

The candidate may offer not more than 4 points in all from the three subjects following:

	COUNTING IN POINTS
Elementary French (page 198) .....	2
Elementary German (page 199) .....	2
Spanish (page 207) .....	2

The candidate may offer not more than 2 points in all from the five subjects following:

	COUNTING IN POINTS
Botany (page 194) .....	1
Chemistry (page 195) .....	1
Elementary Physics (page 206) .....	1
Physiography (page 207) .....	1
<sup>2</sup> Zoölogy (page 208) .....	1

<sup>1</sup>The relative value of subjects is expressed in *points* according to the time required for adequate preparation in them; a point as here used represents a course of five periods weekly throughout an academic year of the preparatory school.

<sup>2</sup> Candidates will be examined in this subject only in September.

The definitions of the requirements in each subject as well as the regulations governing the filing of applications for entrance examinations, the examination fee, the division of examinations, and the places of examination are the same at Barnard College as at Columbia College. A time-schedule of the examinations may be obtained from the Secretary of the University.

### **Report of Entrance Examinations**

Similarly see the "Report of Entrance Examinations in Columbia College," page 219.

### **Entrance Conditions**

A student is admitted to the freshman class on probation when the total number of points received by her in the entrance examinations amounts to eleven (11) out of the total required fifteen (15) points; but this rule is subject to the proviso that the four (4) points of deficiency do not include the whole of English, Elementary Latin, or Elementary Mathematics. A total failure in any one of these subjects will be regarded as disqualifying a candidate for admission.

Students admitted conditionally to the freshman class at the beginning of the academic year will be held under probation until the end of the first half-year.

### **Admission to Advanced Standing**

See the "Requirements for Admission to Advanced Standing in Columbia College," page 219.

In addition, the credits granted in any subject to a student admitted with advanced standing may be withdrawn or diminished in amount, if, in pursuing such subject after admission to Barnard College, the student prove that the granting of the credits was wholly or in part unwarranted by her previous work.

No applicant will be allowed to enter the senior class as a candidate for the degree of Bachelor of Arts after October 15 in any year.

## **SPECIAL STUDENTS**

Special courses of study are offered by the College to young women of proper age and character who wish, without reference to any degree, to make a serious study of any subject or group of subjects. For admission to such courses a student must have credit for fifteen (15) unconditioned points of entrance requirements. Applications for admission should be made at least one week before the first day of the entrance examinations. Proper blanks for this purpose may be obtained from the Registrar.

Once admitted to the College, special students will be allowed to select their own courses of study subject to the general approval of the Dean and to the particular approval, for each course selected, of the head of the department in which the course is given.

Each student is required to pursue in any year courses amounting

to at least eight (8) points, unless excused by the Dean for reasons of special weight.

*Except for reasons of weight, satisfactory to the Committee on Admission, no one will be received as a special student who is less than eighteen years of age, or who has, within ten months of the time of her application, been rejected as a regular student, or has, within that period, become deficient as a regular student.*

In the courses which they severally pursue special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students. They will, therefore, in the event of a change of plan, be credited with such of their courses as may coincide with the courses leading to a degree.

### SCHOLARSHIPS AND PRIZES

There are altogether forty scholarships and two special funds for the aid of needy and deserving students. The value of each scholarship, unless otherwise stated, is \$150 annually.

The scholarships are of two sorts, competitive and non-competitive. The former are awarded for excellence in entrance examinations; the latter, on the nomination of the Committee on Scholarships of the Faculty, to worthy students who have passed at least one year in college. They are held, unless otherwise stated, *for one year only*.

If a student fail to maintain a grade of at least C in all courses which she pursues or if she commit a breach of good order, she shall forfeit her scholarship.

For a detailed statement of the conditions under which the scholarships are awarded, the regulations regarding applications, and the like, the *Announcement of Barnard College* should be consulted. This may be obtained without charge upon application to the Secretary of Barnard College.

The following is a summary of the scholarships:

#### Competitive Scholarships

##### 1. *Open to all Students:*

Trustees' Competitive Scholarship..... 1

Awarded by the Board of Trustees to the student who, in June, passes the best complete entrance examination. It may be held for one year only.

Jessie Kaufmann Scholarship..... 1

Established in 1902 by Mr. Julius Kaufmann in memory of his daughter, Jessie Kaufmann.

##### 2. *Open to Particular Students:*

Brooklyn Scholarships..... 12

Awarded under same conditions as apply to Brooklyn Scholarships in Columbia College, see page 42.

Lucille Pulitzer Scholarships..... 3



Founded by Mr. Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. They are awarded to undergraduate students entering the College from the city of New York. They may be held for the first three years of the College course only.

### Non-competitive Scholarships

These, subject to the general regulations for scholarships, are as follows:

#### 1. *Open to all Students:*

Student Scholarships.....	12
Twelve in number, given by the Committee of the Trustees on Scholarships. These are supported by the income of a permanent fund that is being established and that at present amounts to \$9580, and of the Arthur Brooks Fund (see below). The remainder is supplied by annual provision.	
Ella Weed Scholarship.....	1
Founded by the pupils of Miss Anne Brown's School in memory of Miss Ella Weed.	
Veltin School Scholarship.....	1
Given by the alumnæ of Mlle. Veltin's School.	
Jennie B. Clarkson Scholarship.....	1
Founded in 1898 by Mrs. W. R. Clarkson.	
Emily James Smith Scholarship.....	1
Founded in 1899 by Miss Emily H. Bourne in honor of Miss Smith, then Dean of Barnard College.	
Anna E. Barnard Scholarship.....	1
Founded in 1899 by Miss Emily H. Bourne in honor of Mrs. John G. Barnard.	
Brearley School Scholarship.....	1
Founded in 1899 by pupils and former pupils of the Brearley School.	
Eliza Taylor Chisholm Memorial Scholarship.....	1
Founded in 1901 by the Alumnæ Association of Miss Chisholm's School.	
Graham School Scholarship.....	1
Given in 1901 by the Graham Alumnæ Association.	

#### 2. *Open to Particular Students:*

Mrs. Donald McLean Scholarship.....	1
Given in 1898 by the New York Chapter of the Daughters of the American Revolution, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.	
Emma Hertzog Scholarship.....	1
Founded in 1904 by gifts from residents of Yonkers, N. Y.	

It is awarded, in conference with the Faculty of the Yonkers High School, to a graduate of that school.

Mrs. Henry Clarke Coe Scholarship..... 1

Given in 1904 by the National Society of New England Women. It is awarded, in conference with the President of the above Society, to a student from New England or of New England parentage.

3. *Special Funds for the Aid of Needy and Deserving Students:*

Arthur Brooks Fund.

A fund of \$5000 given in 1897 by Miss Olivia E. Phelps Stokes as a memorial of the Reverend Arthur Brooks, D.D. This fund is at present applied to the maintenance of the Student Scholarships.

Fiske Scholarship Fund.

A sum of \$240, the income of a fund given by Mrs. Martha T. Fiske-Collord, placed at the disposal of the Dean of Barnard College.

**Herrman Botanical Prize**

A prize of \$50, founded by Mrs. Esther Herrman, will be awarded annually to the most proficient undergraduate student in botany.

**Kohn Mathematical Prize**

A prize of \$50, founded by Mrs. S. H. Kohn, is awarded annually to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

**Bunner Medal**

By the terms of its establishment, the A. C. Bunner gold medal (page 39) is open for competition to students in Barnard College.

## REGISTER OF STUDENTS

### SENIORS — CLASS OF 1905

ANDERSON, HELEN BEATRICE.....	(Q) New York City
BASSETT, ELIZABETH WADDINGTON.....	(Mhtn) New York City
BEERS, FLORENCE EVELYN.....	(Q) New York City
BENNETT, GEORGINA GRACE.....	Hackensack, N. J.
BIGGIN, FLORENCE IRENE.....	Middletown, N. Y.
BOORMAN, ELIZABETH STANFORD SAYRE.....	(Mhtn) New York City
BOSS, ANNA MARIE.....	(Mhtn) New York City
BOVARD, LUELLA LILLIAN.....	Port Chester, N. Y.
BROWN, ANN ELIZA.....	Charlotte, N. C.
BUCKINGHAM, ELIZABETH.....	(Mhtn) New York City
BUTLER, ELIZABETH.....	(Bklyn) New York City
BYRNE, MARGARET CECILIA.....	(Bklyn) New York City
CALHOUN, EMMA SHAW.....	(Mhtn) New York City
CALHOUN, MARY EDWARDS.....	(Mhtn) New York City
CARPENTER, LULU JANE.....	Port Chester, N. Y.
CATECART, GERTRUDE LOUISE.....	Plainfield, N. J.
COHEN, HELEN NESSA.....	(Mhtn) New York City
CONOVER, GRACE MORRELLE.....	(Mhtn) New York City
COOLEY, HELEN WILKING.....	(Mhtn) New York City
DAY, ELIZABETH.....	(Br) New York City
DAY, HARRIET.....	Chittenango, N. Y.
DIETZ, EDITH AUGUSTA.....	(Mhtn) New York City
DONNELLY, MARGUERITE KAUGHRAN.....	(Mhtn) New York City
DORRIAN, CECIL INSLEE.....	(Mhtn) New York City
DRAPER, ALICE OLIN.....	(Mhtn) New York City
DURANT, AGNES LACY.....	(Mhtn) New York City
FARMER, MILDRED BLANCHE.....	New Rochelle, N. Y.
FARRELLY, GRACE MARIE.....	(Mhtn) New York City
FETTRECH, EDITH BERRELL.....	(Mhtn) New York City
FISHER, ANNIE FULLER.....	(Mhtn) New York City
FLETCHER, SALLIE FAULKNER.....	(Bklyn) New York City
FORMAN, ANITA GRACE.....	(Mhtn) New York City
FRANKLIN, MARION.....	(Mhtn) New York City
GRAY, MARY GOULD.....	(Bklyn) New York City
GREENE, ANNE DUNKIN.....	(Mhtn) New York City
HANDY, EDITH BERKELEY.....	(R) New York City
HARRIMAN, MARY.....	(Mhtn) New York City
HEIDENHEIMER, ALYNE BENDIT.....	(Mhtn) New York City
HENDRICKS, ETHEL.....	(Mhtn) New York City
HILL, AMELIA LEAVITT.....	(Mhtn) New York City
HOCHHEIMER, HELEN ALICE.....	(Mhtn) New York City
HOFFMAN, MARGIE ETHEL.....	(Bklyn) New York City
HOYT, SARAH FENTON.....	(Mhtn) New York City
HUTCHINSON, EMILIE JOSEPHINE.....	(Bklyn) New York City
JOHNSTON, MARIE LOUISE.....	(Mhtn) New York City
KAPLAN, CARRIE.....	(Mhtn) New York City
KENNEDY, ANNA JOSEPHINE.....	(Bklyn) New York City
LEE, MARY DAY.....	New Rochelle, N. Y.

LELAND, ABBY PORTER.....	Mechanicsville, N. Y.
LELAND, FANNIBELLE.....	(Mhtn) New York City
LEVY, EDWINA LEAH.....	(Mhtn) New York City
LOCK, MARY.....	Plainfield, N. J.
LOEW, FREDERICKA.....	(Mhtn) New York City
LYALL, PAMELA WARREN.....	Summit, N. J.
MACAVOY, CLARISSA HARBEN (Mrs. W. C. MACAVOY).....	(Mhtn) New York City
MATHEWS, LAURA ELIZABETH.....	Newark, N. J.
MEYER, FLORENCE ALMA.....	Yonkers, N. Y.
MOTT, ISABELLE.....	(Mhtn) New York City
MUNROE, ELEANORA LOUISE.....	(Mhtn) New York City
MURRAY, LILY SYLVESTER.....	Montclair, N. J.
NYE, FLORENCE ISABELLE.....	(Mhtn) New York City
PALLISER, HELEN LETITIA.....	(Bklyn) New York City
PURDON, FRANCIS HOPE.....	(Mhtn) New York City
REEDER, RUTH ANGELINE.....	Hastings, N. Y.
REILEY, ANNA CAMPBELL.....	North Tarrytown, N. Y.
REITLINGER, BLANCHE HORTENSE.....	(Mhtn) New York City
SCHULTZ, NINA.....	(Mhtn) New York City
SCOTT, BESSIE TRIMBLE.....	Passaic, N. J.
SERCOMB, MARGARET GRACE.....	Milwaukee, Wis.
SMITH, ALICE VAN WOERT.....	(Mhtn) New York City
SMITH, MARGUERITE.....	(Mhtn) New York City
SNYDER, ARRIETTA.....	Newburgh, N. Y.
SOLOMON, CHARLOTTE LOUISE.....	Syracuse, N. Y.
SPARKMAN, LYDIA HOLT.....	Paterson, N. J.
STABER, HILDA LOUISE.....	(Bklyn) New York City
TALBOT, ABIGAIL ADAMS.....	(Q) New York City
TATTERSHALL, ANNA SARAH.....	White Haven, Pa.
THOMPSON, MARTHA.....	(Mhtn) New York City
THORP, ANNA FRANCES MURIEL.....	Paterson, N. J.
WATSON, ETHEL AGNES.....	Hackensack, N. J.
WELLE, EDITH.....	Paterson, N. J.
WILCOX, HARRIET LESLIE.....	Yonkers, N. Y.
WOLFF, MABEL PAULINE.....	Blue Bell, Pa.

Seniors — Class of 1905..... 83

#### JUNIORS — CLASS OF 1906

BELL, FLORENCE EMILY.....	(Q) New York City
BLACKBURN, LOUISA POWELL.....	Baltimore, Md.
BOYD, VIRGINIA TUCKER.....	(Mhtn) New York City
BRADFORD, ELIZABETH ELLIOT.....	Columbus, O.
BRAUTIGAM, ELISABETH RANDALL.....	East Orange, N. J.
BREWSTER, ALICE DOROTHY.....	(Mhtn) New York City
BROWN, MARJORIE FERGUSON.....	(Mhtn) New York City
BROWNE, MABEL EMMA.....	(Bklyn) New York City
BRUCE, JENNIE MAY.....	Jersey City, N. J.
CHAPMAN, EMMA AUGUSTA.....	Jersey City, N. J.
CHIPPERFIELD, FAITH DELATOUR.....	(Mhtn) New York City
CONDIT, JESSIE PARSONS.....	East Orange, N. J.
DARLING, NELLIE OAKES.....	(Mhtn) New York City
DARRIN, KATHARINE ELIZA.....	Addison, N. Y.
DORSETT, LOVENIA ADELÈ.....	(Q) New York City
EASTMAN, LUCY PUTNAM.....	(Mhtn) New York City
ERNST, MATILDA.....	Huntington, L. I.
ERSTEIN, ROSE.....	(Mhtn) New York City
EVANS, ELIZABETH GRACE.....	(Mhtn) New York City



FAIRCHILD, RUTH DEANE.....	Suffern, N. Y.
FONTAINE, MARIE LOUISE.....	(Mhtn) New York City
POSHAY, FLORENCE ELIZABETH.....	Port Chester, N. Y.
FRANK, EDNA EMILIE.....	(Mhtn) New York City
FRANKFIELD, HELEN.....	(Mhtn) New York City
FRICKE, WILLA MAY.....	(Mhtn) New York City
FRIED, ROSA.....	(Mhtn) New York City
GREENWOOD, ELEANOR MAUD.....	(Mhtn) New York City
HALL, CAROLINE DUMONT.....	Mt. Vernon, N. Y.
HART, ADELAIDE.....	(Mhtn) New York City
HASKELL, ALICE.....	Providence, R. I.
HAYNES, JESSIE ELIZABETH.....	(Mhtn) New York City
HEIMANN, EDITH.....	(Mhtn) New York City
HERRMANN, SENTA.....	(Mhtn) New York City
HOLDEN, ELEANOR SANFORD.....	Madison, N. J.
JAMES, BERTHA CLARKSON.....	Rahway, N. J.
KNOX, ETHEL MAY.....	(Mhtn) New York City
KOHUT, ELSIE.....	(Mhtn) New York City
LEE, ANNIE.....	Poland, O.
LEWIS, BESSIE LOUISE.....	Mt. Vernon, N. Y.
LILIENTHAL, FLORENCE.....	(Mhtn) New York City
MACCOLL, GRACE BEATRICE.....	(Mhtn) New York City
MACCOLL, JEANNETTE.....	(Mhtn) New York City
MAYER, FANNY.....	(Mhtn) New York City
MURTHA, MARY WASHBURN.....	(Mhtn) New York City
NEWLAND, ANNA MAY.....	(Mhtn) New York City
NIES, MINNIE ANTOINETTE.....	Paterson, N. J.
PADDOCK, JOSEPHINE.....	(Mhtn) New York City
PLATE, HAZEL HUDNALL.....	Elmira, N. Y.
POST, CATHARINE MARY.....	(Q) New York City
POST, ELIZABETH SMITH.....	(Q) New York City
RALPH, VIRGINIA.....	(Mhtn) New York City
REANEY, ELLA JANE.....	(Mhtn) New York City
RICH, MABEL ELIZABETH WEISS.....	Mt. Vernon, N. Y.
ROHR, MADBLINE DOROTHEA.....	(Br) New York City
RUSSELL, ISABELLE KATHARINE.....	(Bklyn) New York City
SALIK, AUGUSTA.....	(Bklyn) New York City
SCHLAGETER, FLORENCE.....	Paterson, N. J.
SCHMIDT, CLARA HELENE.....	Mt. Vernon, N. Y.
SEELIGMAN, IRMA SCOTT.....	(Mhtn) New York City
SHANLEY, MILDRED ETHEL.....	Litchfield, Conn.
SHINN, NATALIE IDA.....	Pelham Manor, N. Y.
SIMONS, MARION LODER.....	Port Chester, N. Y.
SOMBORN, EDITH.....	(Mhtn) New York City
STAFF, FLORENCE MAY.....	Dunkirk, N. Y.
STITT, EDNA WALMSLEY.....	(Mhtn) New York City
TAYLOR, VIRGINIA.....	East Orange, N. J.
TOMS, ELIZABETH IVERSON.....	(Mhtn) New York City
WELLS, MILDRED ADELE.....	East Orange, N. J.
WILLIAMS, HELEN ISABEL.....	(Br) New York City
YOUNG, JULIA ELEKTRA LUDLOW (Mrs. R. M. YOUNG).....	(Mhtn) New York City

Juniors — Class of 1906..... 70

## SOPHOMORES—CLASS OF 1907

ADAMS, IRENE BENNETT.....	Mt. Kisco, N. Y.
ALTHAUS, AMALIE LOUISE.....	(Br) New York City
ANTHONY, ANNA GENEVIEVE.....	(Mhtn) New York City

AUERBACH, EVA FANNY.....	(Mhtn) New York City
BAILEY, MARGARET HART.....	(Mhtn) New York City
BATTELL, HANNAH MANSFIELD.....	(Mhtn) New York City
BENNETT, CORA ELIZABETH.....	Tinton Falls, N. J.
BERNKOPF, BEATRICE MOLLY.....	(Mhtn) New York City
BOOTE, MABEL LOUISE.....	Yonkers, N. Y.
BUEHLER, EMMA ARABELLA.....	Newark, N. J.
CANOUN, GERTRUDE LOUISE.....	(Br) New York City
CARROLL, ANNE.....	Warwick, N. Y.
CARTER, HELEN.....	(Mhtn) New York City
COHEN, AMELIA.....	(Br) New York City
COLBY, SABRA CARRINGTON.....	(Mhtn) New York City
COLE, EMMA CORNELIA.....	(Mhtn) New York City
COLE, EVANGELINE.....	Sea Cliff, N. Y.
COOKE, JESSIE PATTERSON.....	(Bklyn) New York City
DISBROW, JEAN.....	(Mhtn) New York City
ERNST, AGNES ELIZABETH.....	(Br) New York City
FURTH, FLORENCE BELLE.....	(Mhtn) New York City
GARDINER, CARA LESLIE.....	(Mhtn) New York City
GOODHART, HELEN.....	(Mhtn) New York City
GORDON, FLORENCE.....	Guttenberg, N. J.
GRANT, LUCILE.....	Stamford, N. Y.
HAYS, ALMA LAURA.....	(Mhtn) New York City
HELLIN, LILIAN.....	(Mhtn) New York City
HENDERSON, HAZEL.....	(Bklyn) New York City
HERZFELD, BEATRICE FELICIA.....	(Mhtn) New York City
HILBORN, JENNIE.....	(Mhtn) New York City
HURTY, KATHLEEN ELIZABETH.....	(Mhtn) New York City
ISRAEL, MARGUERITE BAER.....	(Mhtn) New York City
JACOBS, EVA.....	(Mhtn) New York City
JELLENK, IRMA ETELEKA.....	(Mhtn) New York City
JOHNSON, LUCETTA PITNEY.....	Morristown, N. J.
KEENEY, SARAH.....	(Mhtn) New York City
KLEIN, BLANCHE.....	(Mhtn) New York City
KOHN, IRENE CONSTANCE.....	(Mhtn) New York City
LAY, SARA EMMA.....	(Mhtn) New York City
LORD, MARY ELIZABETH.....	Allston, Mass.
McKEE, ELSA DU BOIS.....	Kingston, N. Y.
McLANE, FANNIE MOULTON.....	(Mhtn) New York City
McLAUGHLIN, PIERINA.....	(Mhtn) New York City
MACEWAN, EMILY LAMONT.....	Newark, N. J.
MARKLEY, EILEEN HUGHES.....	(Mhtn) New York City
MAYO-SMITH, LUCIE.....	(Mhtn) New York City
ODENCRANTZ, LOUISE CHRISTINA.....	(Mhtn) New York City
OESTERLEIN, CHARLOTTE ROSE.....	(Mhtn) New York City
POINTS, JULIET STUART.....	Jersey City, N. J.
PORTER, ELVA LOIS.....	Pompton Lakes, N. J.
PRATT, JOSEPHINE SOUTHWORTH.....	New Rochelle, N. Y.
PURDUE, OLIVE CONDIT.....	East Orange, N. J.
RAE, ANNE MUTCH.....	(Mhtn) New York City
RAPP, KATHERINE LOUISE.....	(Bklyn) New York City
RAY, IDA CHARLOTTE.....	(Mhtn) New York City
REARDON, MARY CATHERINE RUTH.....	Rye, N. Y.
REIMAN, LEONA CÉCILE.....	(Mhtn) New York City
ROSEMON, ETHEL MAY.....	(Bklyn) New York City
RUSK, ELIZABETH.....	St. Joseph, Mo.
SCHACHTEL, ELSIE.....	(Mhtn) New York City
SCHRAMM, ETHEL BELL.....	(Mhtn) New York City

SHONINGER, HELEN.....	(Mhtn) New York City
SMITH, CLARA ELIZABETH.....	(Q) New York City
SMITH, KATHARINE AUGUSTA.....	(Mhtn) New York City
TIBBITS, MARY EDLA.....	(Q) New York City
TRACY, HELEN ABBIE.....	Rockville Centre, N. Y.
TREDWELL, ELIZABETH ALDEN SEABURY TREDWELL.....	(Mhtn) New York City
TRUE, DOROTHY.....	(Mhtn) New York City
TURNBULL, GRACE CLAPPERTON.....	East Orange, N. J.
VALENTINE, MURIEL.....	(Mhtn) New York City
WALKER, MARY BARBOUR.....	(Mhtn) New York City
WARDELL, LILIAN MAY.....	(Mhtn) New York City
WILKES, EDNA MAJOR.....	(Mhtn) New York City
WOODMAN, SOPHIE PARSONS.....	(Mhtn) New York City
YALE, DAISY IRENE.....	Brewster, N. Y.

Sophomores — Class of 1907..... 75

## FRESHMEN — CLASS OF 1908

ALEXANDER, IRMA.....	(Mhtn) New York City
ALLEN, ELIZABETH.....	(Mhtn) New York City
ARMSTRONG, CLAIRETTE PAPIN.....	New Rochelle, N. Y.
ARMSTRONG, LAURA JULIA.....	New Rochelle, N. Y.
ASH, ALMA.....	(Mhtn) New York City
ASKOWITH, DORA.....	Boston, Mass.
BACK, ELIZABETH MITCHELL.....	Yonkers, N. Y.
BEERS, BESSIE ANDREWS.....	(Q) New York City
BRAND, JOSEPHINE.....	(Mhtn) New York City
BRUNDIN, THORNBORG MARIE.....	(Q) New York City
BRUSH, ANNA COOLEY.....	(Mhtn) New York City
BURROWS, EDITH MAIE.....	Tarrytown, N. Y.
BUSHONG, ALICE MARGARET.....	(Bklyn) New York City
BUSSEY, GERTRUDE CARMAN.....	Mt. Vernon, N. Y.
CAMPBELL, CLEMENTINE ELIZABETH.....	(Mhtn) New York City
CASSERES, AMINTA GOMES.....	Mt. Vernon, N. Y.
COVENEY, REGINA.....	(Bklyn) New York City
CROWELL, MARION BARTON.....	(Q) New York City
DAVIES, HAZEL LUCILE.....	Scranton, Pa.
DWYER, ELEANOR AGNES.....	(Bklyn) New York City
EASTMAN, MARJORIE MCCLINTOCK.....	Philadelphia, Pa.
EATON, CLARA CECILIA.....	(Mhtn) New York City
ELIAS, ELIZABETH LYON.....	(Mhtn) New York City
ELTZNER, DOROTHEA.....	(Mhtn) New York City
ERMANN, SOPHIE.....	(Mhtn) New York City
ERNST, FLORENCE CORNELIA.....	(Mhtn) New York City
EVANS, ALICE BELTON.....	(Mhtn) New York City
EVERETT, ETHEL GRACE.....	(Br) New York City
FINK, ELDA LILLIAN.....	Westfield, N. J.
FOX, ELIZABETH FREEMAN.....	(Bklyn) New York City
FREED, JULIA HUELAT.....	(Mhtn) New York City
GELBACH, MARIE.....	Hoboken, N. J.
GOEDKOOP, ANNIE ELIZABETH.....	Paterson, N. J.
GOLDE, MARGARET IDA DORIS.....	(Bklyn) New York City
GOODWIN, ETHEL LIZZIE.....	(Mhtn) New York City
GORDON, EMILIE OGDEN.....	Upper Montclair, N. J.
GOUGH, MARY ZELLA.....	Mt. Vernon, N. Y.
GRAY, HELEN YOUNG.....	(Bklyn) New York City
HARVITT, HELEN JOSEPHINE.....	(Bklyn) New York City
HAYS, MABEL RAY.....	(Mhtn) New York City

HEIM, LILLIAN.....	(Mhtn) New York City
HELMRICH, ELSIE WINIFRED.....	New Rochelle, N. Y.
HERSHFIELD, ALICE LEAH.....	(Mhtn) New York City
HOERMANN, MARTHA LILLIE ADELE.....	Hoboken, N. J.
HOUSTON, JESSIE FERGUSON.....	East Orange, N. J.
HUFELAND, ELEANOR.....	Mt. Vernon, N. Y.
HUFELAND, MARIE AUGUSTA.....	Mt. Vernon, N. Y.
HUNSDON, ELIZABETH CARY.....	New Rochelle, N. Y.
JEIDELL, HELMINA (Mrs. E. J. JEIDELL).....	(Mhtn) New York City
JOHNSON, EVA ELLSWORTH.....	(Q) New York City
JOSEPHI, EDITH.....	(Mhtn) New York City
KAUFMANN, JEANETTE HELLMAN.....	(Mhtn) New York City
KERNER, ANNA MILDRED.....	Chester, N. Y.
KISSEL, DOROTHY.....	Morristown, N. J.
KLEIN, MAUDE IRENE.....	(Q) New York City
LIEBER, EDNA BELL.....	Helena, Ark.
LIEBMANN, CLARA VON ENDE (Mrs. C. LIEBMANN).....	(Mhtn) New York City
LIEBOWITZ, SOPHIE ZIPORAH.....	(Mhtn) New York City
LOEB, HELEN BABETTE.....	(Mhtn) New York City
LOWENTHAL, AMALIA.....	(Q) New York City
MACDONALD, MABEL PERKINS.....	(Mhtn) New York City
MANLEY, ANNA LAURIE.....	(Mhtn) New York City
MARKLEY, BEATRICE MADELEINE.....	(Mhtn) New York City
MARSHALL, AGNES MARGARET.....	(Bklyn) New York City
MARSHALL, MARY OSBORNE.....	(Mhtn) New York City
MASTIN, FLORENCE JOSEPHINE.....	Piermont, N. Y.
MAXON, MARY.....	Mt. Vernon, N. Y.
MILLER, MARY AGNES.....	(Mhtn) New York City
MORITZ, BEULAH.....	Montgomery, Ala.
MULLER, ADA HERMINE.....	(Mhtn) New York City
MÜLLER, LOTTIE KATHERINE.....	(Mhtn) New York City
NEWLAND, MARGUERITE CORLIES.....	(Mhtn) New York City
O'GORMAN, ELLEN KATHRYN.....	(Mhtn) New York City
O'ROURKE, MARY.....	White Plains, N. Y.
PECK, FREDA MARJORIE.....	(Mhtn) New York City
PERRY, HELEN CUSHING.....	(Mhtn) New York City
PETERSON, MABEL LOUISE.....	(Br) New York City
PRAHL, JOSEPHINE ANNA.....	(Mhtn) New York City
QUINBY, ELSIE MAY.....	White Plains, N. Y.
QUINBY, MARY GLADYS.....	Orange, N. J.
QUINN, MAY KATHARINE.....	(Mhtn) New York City
RAPHAEL, ALICE PEARL.....	(Mhtn) New York City
RATHGEN, MARIE LOUISE.....	New Rochelle, N. Y.
REQUA, ADELAIDE.....	(Mhtn) New York City
RIONDA, ELENA.....	(Mhtn) New York City
ROE, OLIVE LEAH.....	(Mhtn) New York City
ROSANOFF, LILLIAN.....	(Mhtn) New York City
ROTHENBERG, ANNIE.....	Meridian, Miss.
SAMMET, FLORENCE.....	(Mhtn) New York City
SAVITZ, LINDA BELLE.....	Westfield, N. J.
SEELY, CAROLINE EUSTIS.....	(Mhtn) New York City
SHAW, ESTHER.....	Mt. Vernon, N. Y.
STEARNS, MABEL FRIEDA.....	(Mhtn) New York City
STEIN, GERTRUDE ROSE.....	(Mhtn) New York City
STEINBERG, PAULINE.....	Elizabeth, N. J.
STRAUSS, MARGUERITE JULIE.....	(Mhtn) New York City
TATTERSHALL, LOUISE MAY.....	White Haven, Pa.
TRATTEL, LOUISE.....	New Rochelle, N. Y.



TURNBULL, ANNIE GRACE.....	(Mhntn) New York City
VEITH, HELEN IDA.....	(Br) New York City
DEVRIES, ALMA.....	Mt. Vernon, N. Y.
WELLS, GERTRUDE.....	East Orange, N. J.
WELLS, HILDA ELIZABETH.....	(Q) New York City
WIGHTMAN, MARGARETTA.....	(Bklyn) New York City
WILSON, MARIAN.....	Newark, N. J.
WOLFF, FLORENCE MARTHA.....	(Mhntn) New York City
WOOLSEY, CATHARINE BUCKINGHAM.....	Englewood, N. J.
YATES, MARGARET HALL.....	(Mhntn) New York City
YOUNG, JENNIE MARIE.....	(Mhntn) New York City
ZANGLER, ELIZABETH CATHRYN.....	Croton, N. Y.

Freshmen — Class of 1908..... 110

## SPECIAL STUDENTS

BERNHEIM, ALICE RHEINSTEIN (Mrs. G. B. BERNHEIM).....	(Mhntn) New York City
BLATCH, HARRIET STANTON (Mrs. H. S. BLATCH).....	Basingstoke, Eng.
CHADWELL, ELIZABETH WILLARD.....	(Mhntn) New York City
CORNISH, CHARLOTTE HARRISON.....	Gillette, N. J.
EGLESTON, JEAN DUNBAR.....	Elizabeth, N. J.
EHRRICH, ELSIE MARGARET.....	(Mhntn) New York City
EHRRICH, LILIAN IDA.....	(Mhntn) New York City
EINSTEIN, AMY.....	(Mhntn) New York City
GOLDSMITH, EVELYN MIRIAM.....	(Mhntn) New York City
GREENSTEIN, SELMA.....	(Mhntn) New York City
HAAS, EDITH JOAN.....	(Mhntn) New York City
HINKLE, ALMA MAY ELIZABETH.....	Philadelphia, Pa.
HORAN, MABEL EMILY.....	(Mhntn) New York City
LICHTEN, DORA ELSIE.....	(Mhntn) New York City
MACDONALD, EVELYN BLUNT.....	(Mhntn) New York City
MONTAGUE, NELLIE WEYMOUTH (Mrs. W. P. MONTAGUE).....	(Mhntn) New York City
MOORE, NANA LOUISE.....	(Mhntn) New York City
MORGENTHAU, FLORENCE JESSIE.....	(Mhntn) New York City
RICE, JESSAMINE BOZEMAN.....	Montgomery, Ala.
SCHODTS, LILY MARGARET.....	(Mhntn) New York City
SELIGMAN, FLORENCE IRENE.....	(Mhntn) New York City
SMITH, JULIA PRATT.....	(Mhntn) New York City
STEVENSON, MARGARETTA PAXTON.....	Roselle, N. J.
STOBO, JEANNETTE RUSSELL.....	(Mhntn) New York City
WHEELER, HÉLÈNE LOUISE.....	(Mhntn) New York City

Special Students..... 25

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Secretary to the Dean

JANE BERGER,  
Assistant Secretary

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University Council*  
CLYDE FURST, A.M.....*Secretary*  
PAUL MONROE, Ph.D.....*Elected Delegate to the University Council*

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FREDERICK REMSEN HUTTON, Ph.D.....*Professor of Mechanical  
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JAMES MCKEEN CATTELL, Ph.D.....*Professor of Psychology*  
JOHN FRANCIS WOODHULL, Ph.D.....*Professor of Physical Science*  
FRANKLIN THOMAS BAKER, A.M.....*Professor of English Language  
and Literature*  
EDWARD HOWARD CASTLE, A.M.....*Professor of History*  
RICHARD ELWOOD DODGE, A.M.....*Professor of Geography*  
CHARLES EARL BIKLÉ, A.M.....*Adjunct Professor of Mathematics*  
JAMES EARL RUSSELL, LL.D.....*Barnard Professor of Education*  
FRANCIS ERNEST LLOYD, A.M..*Adjunct Professor of Biological Science*  
HELEN KINNE.....*Professor of Domestic Science*  
MARY DUNCAN RUNYAN.....*Professor of Kindergarten*  
MARY SCHENCK WOOLMAN.....*Professor of Domestic Art*  
VIRGIL PRETTYMAN, A.M..*Principal of the Horace Mann High School*  
FRANK MORTON MCMURRY, Ph.D..*Professor of Elementary Education*  
CHARLES RUSSELL RICHARDS, B.S.....*Professor of Manual Training*  
PAUL MONROE, Ph.D.....*Professor of the History of Education*  
SAMUEL TRAIN DUTTON, A.M.....*Professor of School Administration*  
GONZALEZ LODGE, LL.D.....*Professor of Latin and Greek*  
EDWARD LEE THORNDIKE, Ph.D.....*Professor of Genetic Psychology*  
CHARLES HUBERT FARNSWORTH.....*Adjunct Professor of Music*  
DAVID EUGENE SMITH, Ph.D.....*Professor of Mathematics*  
THOMAS DENISON WOOD, M.D.....*Professor of Physical Education*  
JULIUS SACHS, Ph.D.....*Professor of Secondary Education*  
CLYDE FURST, A.M.....*Secretary of the Faculty*  
ELIJAH WILLIAM BAGSTER-COLLINS, A.M.....*Adjunct Professor of  
German*  
LOUIS ROUILLION, A.M.....*Adjunct Professor of Manual Training*  
MAURICE ALPHEUS BIGELOW, Ph.D.....*Adjunct Professor of Biology*  
FREDERICK HENRY SYKES, Ph.D.....*Director of Extension Teaching*  
HENRY CARR PEARSON, A.B.....*Principal of the Horace Mann  
Elementary School*  
GEORGE L. MEYLAN, M.D....*Adjunct Professor of Physical Education*





CLARK WISSLER, Ph.D.....	<i>Lecturer in Anthropology</i>
SUSAN E. BLOW.....	<i>Lecturer in Kindergarten</i>
LAURA E. FISHER.....	<i>Lecturer in Kindergarten</i>
WILLIAM SKARSTROM, M.D.....	<i>Lecturer in Physical Education</i>
ANTHONY SUZZALLO, A.M.....	<i>Lecturer in Elementary Education</i>
ANNA LOWELL ALLINE.....	<i>Lecturer in Hospital Economics</i>
AZUBAH JULIA LATHAM, A.B.....	<i>Lecturer in Music</i>

## TEACHERS COLLEGE SCHOOLS

### Officers of Administration

JAMES E. RUSSELL, LL.D.,	<i>Dean</i>
SAMUEL T. DUTTON, A.M.,	<i>Superintendent</i>

### Horace Mann Schools

VIRGIL PRETTYMAN, A.M.....	<i>Principal of High School</i>
HENRY CARR PEARSON, A.B.....	<i>Principal of Elementary School</i>
KATE MCMAHON.....	<i>Principal of Kindergarten</i>
DOROTHEA FRANCES CANFIELD, Ph.D.....	<i>Secretary</i>
MARION ROOT PRATT.....	<i>Secretary to the Superintendent</i>
MARTHA MCLEAR.....	<i>Secretary to Principal of High School</i>
CORA MAY GEER.....	<i>Secretary to Principal of Elementary School</i>

### Speyer School

AMY SCHÜSSLER.....	<i>Principal</i>
HOWARD B. WOOLSTON.....	<i>Director Night School and Neighborhood Work</i>

### Instructors and Assistants in Horace Mann Schools

EUGÉNIE MENUT.....	<i>French</i>
MAY BELLE VAN ARSDALE.....	<i>Physics and Chemistry</i>
KATHARINE MOORE COCHRANE, A.B.....	<i>Greek and Latin</i>
CHARLES MCCOY BAKER, A.B.....	<i>Latin</i>
MARY C. UPHAM.....	<i>Fine Arts</i>
ELIZA RHEES BUTLER, A.B.....	<i>History</i>
LUCY HESS WEISER.....	<i>Manual Training</i>
ROLAND HUGH WILLIAMS, B.S.....	<i>Mathematics</i>
KATE STUART ANTHONY.....	<i>Domestic Art</i>
FRANCES ELBERTINE MCRAE.....	<i>Physical Science</i>
LAURA BRAINARD WHITTEMORE.....	<i>Domestic Science</i>
MARY BROWNSON GILLMORE, Ph.B.....	<i>History</i>
CLIFFORD UPTON, A.B.....	<i>Mathematics</i>
EDITH RAND, A.B.....	<i>Biology and Nature Study</i>
ALLAN ABBOTT, A.B.....	<i>English</i>
LILLA A. NOURSE.....	<i>Fine Arts</i>
HELEN PLACE.....	<i>Music</i>
HELEN B. BAKER.....	<i>English</i>
CHARLES PRENTICE BENNS.....	<i>Manual Training</i>

FRANK ELBERT BROOKS, A.B.	<i>French</i>
OTHO GRANDFORD CARTWRIGHT, A.M.	<i>History</i>
HOWARD F. DOANE, A.M.	<i>Latin</i>
EDGAR FAUVER, A.B.	<i>Physical Training</i>
CÉCILE FREESE	<i>French</i>
WILLIAM WALLACE KING, A.M.	<i>Latin</i>
TINA E. LINDQUIST	<i>Corrective Gymnastic</i>
HERMON A. BUSCHEK	<i>German</i>
ABRAM R. TAYLOR	<i>Mathematics</i>
JOHN D. NEITZ	<i>Substitute</i>
LOUISE CHRISTINE SUTHERLAND	<i>Kindergarten Teacher</i>
JULIA WADE ABBOTT	<i>Kindergarten Assistant</i>
WILLIAM HELLMUTH GOHDES, A.B.	<i>German</i>
ALEXANDER JAMES INGLIS, A.B.	<i>Latin</i>
CLARA BARBARA KIRCHWEY	<i>Geography</i>
EMMA LENORE MACALARNEY, A.B.	<i>English</i>
EGBERT EUGENE MACNARY	<i>Manual Training</i>
LOUIS S. ODELL, A.B.	<i>Mathematics</i>
STELLA WARREN SECREST, A.B.	<i>Mathematics</i>
CHARLES CONRAD SLEFFEL	<i>Manual Training</i>
CHARLES WEICK	<i>Manual Training</i>
MARY EDWARDS CALHOUN	<i>History</i>
ELIZABETH M. WHELOCK	<i>Latin</i>
ELIZABETH BURCHENAL	<i>Physical Education</i>
MARIE KARCHER BROOKS	<i>French</i>
IDA ELIZABETH ROBBINS	<i>Fourth Grade</i>
EVELYN BATCHELDER	<i>Second Grade</i>
SUSAN ADELE LATHROP	<i>Sixth Grade</i>
CAROLINE WOODBRIDGE HOTCHKISS	<i>Seventh Grade</i>
MARIAM CHARLOTTE WINCHESTER	<i>First Grade</i>
MARY FREDERIKA KIRCHWEY	<i>Sixth Grade</i>
MARY HAMMET LEWIS	<i>Third Grade</i>
EDITH CORNELIA BARNUM	<i>First Grade</i>
LAURA BELLE UNDERHILL	<i>Fifth Grade</i>
KATHARINE WELLES	<i>Second Grade</i>
LILLIAN EMILY ROGERS	<i>Seventh Grade</i>
MARY GERTRUDE PEABODY	<i>Fifth Grade</i>
FLORENCE MAY MARSHALL	<i>Fourth Grade</i>
BESSIE MILDRED COBURN	<i>Fifth Grade</i>
MILDRED IONE BATCHELDER	<i>Third Grade</i>
SIEGFRIED MARIA HANSEN	<i>Sixth Grade</i>
GEORGIA FARRAND BACON	<i>Seventh Grade</i>
JAMES JARDINE	<i>Physical Education</i>
CHARLOTTE B. GERRISH	<i>Physical Training</i>
HELEN LATHAM	<i>Music</i>
MARION G. RYLAND	<i>Assistant</i>
KATHARINE B. OWEN	<i>Assistant</i>

## Instructors and Assistants in the Speyer School

HARRIETTE M. MILLS.....	<i>Kindergarten</i>
ISABELLA AUSTIN.....	<i>First Grade</i>
CORNELIA T. HALL.....	<i>Second Grade</i>
LOUISE P. GLANTON.....	<i>Third Grade</i>
MABEL C. RUSSELL.....	<i>Fourth Grade</i>
CLARA B. HARRIS.....	<i>Fifth Grade</i>
RACHEL E. CLOSS.....	<i>Sixth Grade</i>
IDA C. CARTER.....	<i>Seventh Grade</i>
LOUISE M. FISHER.....	<i>Physical Education</i>
MARGARET MAUD ZERBE.....	<i>Music</i>
LAURA C. VALENTINE.....	<i>Secretary and Assistant Librarian</i>
MIRIAM FINN SCOTT.....	<i>Resident</i>
ERNEST STAGG WHITIN.....	<i>Assistant in Neighborhood Work</i>

## GENERAL STATEMENT

Teachers College, founded in 1888, and chartered by the Regents of the University of the State of New York in 1889, became, in 1898, a part of the educational system of Columbia University. The President of Columbia University is President, *ex-officio*, of Teachers College, and the College is represented in the University Council by its Dean and a representative elected from its Faculty. The College meanwhile maintains its separate corporate organization, and its Board of Trustees continues to assume entire financial responsibility for its maintenance.

Teachers College is thus the professional school of Columbia University for the study of education and the training of teachers, taking academic rank with the Schools of Law, Medicine, and Applied Science. It provides opportunity for study and research in the field of education, and both theoretical and practical preparation of teachers of both sexes for elementary and secondary schools, of specialists in various branches of educational work, and of school principals, supervisors, and superintendents.

The following curricula are offered by the College:

1. A collegiate course of two years. This course may be entered by any student who, having satisfied the requirements for admission to the undergraduate colleges of the University, desires to direct his collegiate studies specifically towards teaching. This course, when followed by a two-years' professional course, leads to the degree of Bachelor of Science.
2. Two-year professional courses leading to the Bachelor's Diploma of Teachers College for (a) teaching specified subjects in secondary schools; (b) teaching in elementary schools or in kindergartens; (c) teaching Domestic Art, Domestic Science, Fine Arts, Manual Training, Music; or (d) Physical Education.

Candidates for admission to course (a) must have completed the sophomore year in an approved college; to course (b), the sophomore

year in an approved college, or graduation from an approved normal school or teachers' training school; to course (c), at least two years of collegiate study, technical training, or experience in teaching, after the completion of a satisfactory course in an approved secondary school; to course (d), at least two years of collegiate study or technical training after the completion of a satisfactory course in an approved secondary school.

The curricula for teaching in secondary schools are so arranged that undergraduate students of Columbia College and of Barnard College, and students who are prepared to enter the junior class of either of these colleges, may, if they desire, obtain the diploma of Teachers College at the time of receiving their degree of Bachelor of Arts. In like manner, students of Teachers College may obtain their diploma and the degree of Bachelor of Science at the same time.

3. Graduate courses of at least one year leading to the Master's Diploma of the College. Candidates for admission to these courses must have received a Bachelor's Diploma from Teachers College, or an equivalent collegiate and professional education in an approved institution of learning.

4. Graduate courses of at least two, ordinarily of three, years, leading to the Doctor's Diploma in certain departments of the College. The conditions for entrance to these courses are the same as those for the course leading to the Master's Diploma.

Certain graduate courses in Teachers College may be counted in partial fulfilment of the requirements for the University degrees of Master of Arts and Doctor of Philosophy. Candidates for the degree of Master of Arts or Doctor of Philosophy who present Education as a major or as a minor subject may arrange their work in such a way as to secure at the same time a Bachelor's or a Master's Diploma from Teachers College.

The Horace Mann School and the Speyer School, maintained by Teachers College as schools of observation and experiment, include kindergarten, elementary, and secondary classes and neighborhood work, and offer exceptional advantages for the study of the practical work of teaching and for the investigation of educational problems.

### Buildings and Equipment

The buildings of Teachers College occupy the block directly north of the University Campus, bounded by 120th and 121st Streets, Amsterdam Avenue and Broadway.

The Main Building, containing, in addition to its equipment for administration and instruction, the Bryson Library—the educational library of the University—and the Educational Museum, is adjoined by the Milbank Memorial Building, housing a number of academic and technical departments and containing the Memorial Chapel; and by the Macy Manual Arts Building, with its exceptional equipment for



the departments of Manual Training and Fine Arts. The Frederick Ferris Thompson Memorial Building for the department of Physical Education connects the Milbank Building on the west with the building of the Horace Mann School. The building of the James Speyer School is a short distance north of the College, on Lawrence Street, near Amsterdam Avenue. Whittier Hall, the residence for the women students of the University, is under the control of Teachers College.

## REGISTER OF STUDENTS, 1904-05

### Teachers College

### Graduate Students

### Candidates for the Doctor's Degree and Diploma

The following students are registered also under the Faculty of Philosophy.

- AERY, WILLIAM ANTHONY.....Elmhurst N. Y.  
College of the City of New York, 1900-1901.  
Columbia University, A.B., 1904.  
Teachers College, Bachelor's Diploma, 1904.  
*Education, History.*
- ANDREWS, BENJAMIN RICHARD.....(Mhntn) New York City  
Cornell University, A.B., 1901; A.M., 1903.  
*Education, Psychology.*
- BALDWIN, ARTHUR POND.....(Mhntn) New York City  
College of the City of New York, A.B., 1876.  
Columbia University, A.M., 1901.  
Teachers College, Bachelor's Diploma, 1902.  
*Education, Sociology.*
- \* BENNETT, CHARLES JOSEPHUS.....San Jose, Cal.  
University of Nashville, A.B., 1889; A.M., 1892.  
Leland Stanford, Jr., University, A.M., 1896.  
*Education, Psychology.*
- BREWSTER, JOHN ALFRED.....Geauga Lake, Ohio  
Harvard University, A.B., 1896.  
*Education, Mathematics, Sociology.*
- COLBURN, HARRISON S.....(Mhntn) New York City  
Purdue University, B.S., 1900.  
Columbia University, A.M., 1902.  
Teachers College, Master's Diploma, 1902.  
*Education, History.*
- COLE, ARTHUR CARMAN.....North Craftsbury, Vt.  
Olivet College, A.B., 1894.  
University of Chicago, 1895-1896.  
Columbia University, A.M., 1904.  
*Education, English.*
- COURSALT, JESSE HARLIAMAN.....Columbus, Ohio  
Ohio State University, A.B., 1893; A.M., 1898.  
Harvard University, A.M., 1900.  
Teachers College, Master's Diploma, 1904.  
*Education, Psychology.*
- CUBBERLEY, ELLWOOD P.....Stanford University, Cal.  
University of Indiana, A.B., 1891.  
Columbia University, A.M., 1902.  
*Education, Sociology.*
- DEAN, PHILIP REDFIELD.....Newark, N. J.  
Harvard University, A.B., 1896.  
Columbia University, A.M., 1904.  
Teachers College, Master's Diploma, 1904.  
*Education.*

\* Candidate for the Ph.D. degree only.

- DEARBORN, WALTER FENNO.....Middletown, Conn.  
Wesleyan University, A.B., 1900; A.M., 1903.  
*Education, Psychology, Philosophy.*
- ELLIOTT, EDWARD CHARLES.....(Mhtn) New York City  
University of Nebraska, B.S., 1895; A.M., 1897.  
*Education, Sociology, Economics.*
- \* ESSELSTYN, HENRY HOGEBOOM.....Hudson, N. Y.  
Union College, A.B., 1893; A.M., 1896.  
*Education, English.*
- FONTAINE, ANDRÉ C.....(Mhtn) New York City  
University of France, B.L.P., 1896.  
Columbia University, A.M., 1903.  
*Education.*
- \* HALL, JOHN WILLIAM.....(Mhtn) New York City  
Columbia University, B.S., 1901; A.M., 1902.  
*Education, Geography.*
- JAMESON, CHARLES BARING.....(Mhtn) New York City  
College of the City of New York, A.B., 1896.  
*Education, English, History, Sociology.*
- LEWIS, ALFRED HOMES.....Greenwich, Conn.  
Princeton University, 1896-1898.  
Columbia University, A.B., 1902; A.M., 1903.  
Teachers College, Bachelor's Diploma, 1902.  
*Education.*
- \* PAUL, FRANCIS HUGH JOSEPH.....(Mhtn) New York City  
College of the City of New York, A.B., 1897.  
New York University, M.Pd., 1902; D.Pd., 1903.  
*Education, Psychology.*
- REIGART, JOHN FRANKLIN.....Yonkers, N. Y.  
Dickinson College, A.B., 1888.  
Clark University, 1891-1892.  
*Education, Psychology.*
- SMITH, ALEXANDER GODFREY.....(Bklyn) New York City  
Columbia University, A.B., 1900; A.M., 1902.  
*Psychology, Education, English.*
- STAMPER, ALVA WALKER.....Chico, Cal.  
University of California, B.S., 1895.  
*Education, Mathematics.*
- STONE, CLIFF WINFIELD.....Oshkosh, Wis.  
University of Chicago, 1900-1902.  
Columbia University, B.S., 1904.  
*Education, Philosophy.*
- STRAYER, GEORGE DRAYTON.....Baltimore, Md.  
Johns Hopkins University, A.B., 1903.  
*Education, Sociology.*
- WELLS, HERMAN JAY.....(Jamaica), New York City  
Williams College, A.B., 1887.  
Columbia University, A.M., 1902.  
*Education.*

### Candidates for the Master's Degree and Diploma

The following students are registered also under the Faculty of Philosophy.

- † ADAMS, EDWARD BRADFORD.....Westport, Conn.  
Yale University, A.B., 1901.  
Yale Divinity School, B.D., 1904.  
*Education.*
- BALLARD, HAROLD HENRY.....Baltimore, Md.  
Johns Hopkins University, A.B., 1888; Ph.D., 1893.  
*Education, Psychology.*

\* Candidate for the Ph.D. degree only.      † Candidate for the A.M. degree only.

- † BEIFELD, MINNIE MARGARET.....(Mhtn) New York City  
Barnard College, A.B., 1904.  
*Education, Philosophy.*
- BELLER, WILHELMINA CATHERINE.....(Mhtn) New York City  
Teachers College, Higher Diploma, 1902.  
Columbia University, B.S., 1904.  
*Education.*
- BLISS, DON CARLOS.....Kearny, N. J.  
Dartmouth College, A.B., 1892; A.M., 1894.  
*Education, History.*
- BRAINERD, HELEN KATHARINE.....St. Albans, Vt.  
Wellesley College, A.B., 1900.  
*Education, Latin.*
- † BRAUCHER, HOWARD S.....(Mhtn) New York City  
Cornell University, A.B., 1903.  
*Education.*
- BRINCKERHOFF, ANNIE M.....Mt. Vernon, N. Y.  
Vassar College, A.B., 1895.  
*Education, Latin.*
- BRINCKERHOFF, MARY LOUISE.....Mt. Vernon, N. Y.  
Vassar College, A.B., 1899.  
*Education, English.*
- †† BROWN, UDETTA DOTY.....(Mhtn) New York City  
Wellesley College, A.B., 1903.  
*Education, French.*
- CARLSON, CARL OSCAR.....(Mhtn) New York City  
College of the City of New York, B.S., 1896.  
*Education.*
- CHEDSEY, MARY COE.....Yonkers, N. Y.  
Columbia University, B.S., 1904.  
*Education, Botany.*
- †† CLARKE, MYRA BREWSTER.....(Mhtn) New York City  
University of Washington, A.B., 1900.  
*Education, Psychology, Household Chemistry.*
- COBB, CHARLES W.....(Mhtn) New York City  
Amherst College, A.B., 1897; A.M., 1901.  
*Education.*
- †† COLWELL, RACHEL HARTSHORN.....Granville, Ohio  
Denison College, B.S., 1903.  
*Education, Domestic Science.*
- § CONNER, MARY EMMA.....Scranton, Pa.  
Teachers College, Bachelor's Diploma, 1904.  
*Education, Psychology.*
- COUCH, ANNE MARGARET.....(Bklyn) New York City  
The Woman's College of Baltimore, A.B., 1904.  
*Education, History.*
- DANIELS, HARRIET McDONAL.....Clinton, N. Y.  
Bryn Mawr, 1900-1901.  
Barnard College, A.B., 1904.  
*Education.*
- DAVENPORT, F. ISABEL.....Cortland, N. Y.  
Cornell University, 1894-1896.  
Clark University, 1902-1903.  
Columbia University, B.S., 1904.  
Teachers College, Bachelor's Diploma, 1904.  
*Education, Psychology.*

† Candidate for the A.M. degree only.

†† Also a candidate for the Elementary diploma.

†† Also a candidate for the Domestic Science diploma.

§ Also a candidate for the B.S. degree.



- † DORLAND, GEORGE WILLIAM.....(Mhtn) New York City  
College of the City of New York, B.S., 1897.  
*Education, Psychology, Philosophy.*
- DRIEHAUS, IRWIN WILLIAM.....Cincinnati, Ohio  
University of Cincinnati, B.S., 1900.  
*Education, Physical Science.*
- EAKINS, LUELLA HELEN.....Colwyn, Pa.  
The Woman's College of Baltimore, A.B., 1903.  
*Education, Greek.*
- FLETCHER, WILLIAM THOMAS.....Forest Grove, Oregon  
Pacific University, B.S., 1900.  
*Education, Mathematics.*
- FOX, ANNA LEAH.....Fall River, Mass.  
Brown University, Ph.B., 1904.  
*Education, German.*
- GARRETY, WILLIAM PLYMON.....(Mhtn) New York City  
College of the City of New York, B.S., 1897.  
New York Training School for Teachers, 1898-1900.  
*Education.*
- GODFREY, JESSE T.....Cranford, N. J.  
Lafayette College, A.B., 1903.  
*Education.*
- GRAY, THOMAS EDWIN.....Carthage, Mo.  
University of Michigan, A.B., 1895.  
*Education, Psychology.*
- GREENBAUM, SAMUEL WILLIAM.....(Mhtn) New York City  
College of the City of New York, A.B., 1894.  
New York University, M.D., 1899.  
*Education.*
- HALLENBECK, ALBERT HENRY.....Syracuse, N. Y.  
Syracuse University, A.B., 1901.  
*Education, Sociology.*
- † HAMMOND, ELSIE.....Fishkill-on-Hudson, N. Y.  
Mt. Holyoke College, A.B., 1902.  
*Education, Mathematics.*
- HECKERT, JOHN WALTER.....(Mhtn) New York City  
Hamline University, Ph.B., 1900.  
*Education, Psychology.*
- HEDGES, ANNA CHARLOTTE.....(Mhtn) New York City  
Washington University, St. Louis, 1885-1887.  
Teachers College, Bachelor's Diploma, 1903.  
Columbia University, B.S., 1904.  
*Education, Anthropology, Sociology.*
- † HEYDRICK, BENJAMIN ALEXANDER.....(Mhtn) New York City  
Allegheny College, A.B., 1893.  
Harvard University, A.B., 1895.  
*Education.*
- HIGHSMITH, JOHN HENRY.....Durham, N. C.  
Trinity College, A.B., 1900; A.M., 1902.  
*Education, Philosophy.*
- † HOLLOWAY, J. HENRY.....(Mhtn) New York City  
College of the City of New York, B.S., 1898.  
*Education, History.*
- HOYT, FRANKLIN SHERMAN.....Indianapolis, Ind.  
Boston University, B.S., 1893.  
Yale University, 1898-1900.  
*Education, Psychology.*

† Candidate for the A.M. degree only.

- † HUBBARD, FLORENCE MILDRED.....Geneva, N. Y.  
Wellesley College, A.B., 1898.  
*Education, English.*
- † JOHNSON, ARTHUR LACEY.....Cranford, N. J.  
Lafayette College, B.S., 1896; M.S., 1899.  
*Education.*
- JONES, ARTHUR JULIUS.....(Mhtn) New York City  
Iowa College, B.S., 1893.  
*Education, Sociology.*
- † KAIGHN, RAYMOND PIMLOTT.....(Mhtn) New York City  
Hamline University, Ph.B., 1898.  
*Education, Psychology.*
- KELLEY, JOHN.....Mt. Pleasant, Mich.  
Benton Harbor College, Pd.B., 1897.  
*Education, English.*
- KHAULI, BULUS KUZMA.....Beirut, Syria  
Syrian Protestant College, A.B., 1897.  
*Education, Arabic, Hebrew.*
- LADEN, JAMES E.....Wemple, N. Y.  
Manhattan College, A.B., 1904.  
*Education, Psychology.*
- LANE, CHRISTOPHER J.....Pearl River, N. Y.  
St. Francis Xavier College, A.B., 1891.  
*English, Education.*
- LAWYER, LOUIS ROSSELL.....(Mhtn) New York City  
College of the City of New York, B.S., 1896.  
*Education, English.*
- LEIPER, MACON ANDERSON.....Little Rock, Ark.  
Peabody Normal College, L.I., 1899.  
University of Nashville, A.B. 1901.  
*Education, Latin.*
- † LOCKWOOD, CORNELIUS WYGANT.....Newburgh, N. Y.  
State Normal School, New Paltz, N. Y., 1891.  
Harvard University, B.S., 1899.  
*Education.*
- LOMER, GERHARD R.....Montreal, Can.  
McGill University, A.B., 1903; A.M., 1904.  
*Education, Comparative Literature, Psychology.*
- MANNING, JOHN THOMAS.....(Br) New York City  
Manhattan College, A.B., 1893.  
New York Law School, LL.B., 1897.  
*Education.*
- † MANNY, FRANK ADDISON.....(Mhtn) New York City  
University of Michigan, A.B., 1893; A.M., 1896.  
University of Chicago, 1896-1897.  
*Education.*
- MARSHALL, JAMES FRANCIS.....(Br) New York City  
College of the City of New York, A.B., 1903.  
*Education, History.*
- MAXSON, ARTHUR RAY.....Winter Park, Fla.  
Rollins College, A.B., 1900.  
*Education, Mathematics.*
- MISCHLICH, ADOLPH.....(Mhtn) New York City  
College of the City of New York, B.S., 1879.  
*Education.*
- MOSES, JOSEPH.....(Mhtn) New York City  
University of Cincinnati, A.B., 1894.  
*Education, German, French.*

†‡Candidate for the A.M. degree only.

- NEWMAN, CHARLES A. P. .... (Mhntn) New York City  
College of the City of New York, A.B., 1900.  
*Education, History.*
- OPDYCKE, JOHN B. .... (Bklyn) New York City  
Franklin and Marshall College, A.B., 1898; A.M., 1901.  
New York University, A.M., 1902.  
*Education, English.*
- O'REGAN, JAMES JOSEPH. .... (Mhntn) New York City  
St. Francis Xavier College, A.B., 1895.  
*Education.*
- PIERSON, HARRY. .... Oradell, N. J.  
Lebanon University, Lebanon, O., A.B., 1900.  
*Education.*
- RALL, EDWARD EVERETT. .... Cedar Falls, Ia.  
Iowa State Normal School, Cedar Falls, Iowa, M.Di., 1895.  
University of Iowa, A.B., 1900.  
Yale University, Ph.D., 1903.  
*Education, Psychology.*
- REYNOLDS, IONE ARMENIA. .... Croton, N. Y.  
Vassar College, 1896-1898.  
Syracuse University, Ph.B., 1900.  
*Education, English.*
- ROETH, NATALIE S. .... Meriden, Conn.  
Mt. Holyoke College, A.B., 1898.  
*Education, Zoology, Botany.*
- ROOP, MARCUS J. .... Ridgefield, N. J.  
Heidelberg College, A.B., 1893; A.M., 1896.  
New Brunswick Theological Seminary, B.D., 1896.  
*Education, English, Philosophy.*
- SAILER, THOMAS H. P. .... Englewood, N. J.  
Princeton University, A.B., 1889.  
University of Pennsylvania, Ph.D., 1895.  
*Education, Genetic Psychology.*
- SCOTT, IZORA. .... (Mhntn) New York City  
University of Chicago, 1894-1899.  
Barnard College, A.B., 1904.  
*Education, Latin.*
- SNOWDEN, ALBERT ALEXANDER. .... (Rockaway Beach), New York City  
Albion College, Pd.B., 1902.  
Michigan University, A.B., 1902.  
*Education, German.*
- †† STIMSON, LUCILE HINKLE. .... (Mhntn) New York City  
Vassar College, A.B., 1904.  
*Education, Domestic Science.*
- SWICK, DAVID A. .... (Mhntn) New York City  
College of the City of New York, B.S., 1899.  
*Education, English.*
- THOMPSON, MARY E. .... Birmingham, Mich.  
Normal College, Ypsilanti, Mich., B.Pd., 1901.  
*Education, English.*
- WALKER, MARY ADELAIDE. .... (Mhntn) New York City  
Teachers College, Bachelor's Diploma, 1904.  
Columbia University, B.S., 1904.  
*Education, Philosophy, History.*
- §§ WALLACE, RUTH. .... Franklin, Ind.  
Franklin College, A.B., 1899.  
University of Chicago.  
*Education, English.*

†† Also a candidate for the Domestic Science diploma.

§§ Also a candidate for the Secondary diploma.

- || WHITIN, ERNEST STAGG.....(Mhntn) New York City  
*Education, Philosophy.*
- † YOUNG, CHARLOTTE SPENCER.....Cincinnati, Ohio  
University of Cincinnati, 1895-1899.  
Cornell University, A.B., 1901.  
*Education, Zoölogy, Botany, Biology.*
- YOUNG, SAMUEL SUNG.....San Francisco, Cal.  
University of California, A.B., 1904.  
*Education, German.*
- ZINK, EDITH ALICIA.....Bridgeport, Conn.  
Mt. Holyoke College, A.B., 1904.  
*Education, English.*

## Professional Students Candidates for a Bachelor's Diploma

## SENIOR CLASS

- § ADAMS, EDITH SHERWIN (*Physical Education*).....Helena, Mont.  
Leland Stanford, Jr., University, 1896-1897.
- \*\* ALLEN, EDITH DE LANCEY.....Geneva, N. Y.
- AREY, AMY (*Elementary Teaching*).....Cedar Falls, Ia.  
Iowa State Normal School, Cedar Falls, Ia., M.Li., 1896.  
Iowa College, Ph.B., 1899.
- BABB, LAURA VIRGINIA (*Domestic Art*).....Columbus, O.  
Teacher's Normal, Somerset, O., 1882-1883.
- || BASSETT, ELIZABETH WADDINGTON (*German and History*)....(Mhntn) New York City
- BATDORFF, IDA J. (*Domestic Science*).....Wayne, Pa.  
Lock Haven Normal School, 1880.
- † BEECKMAN, FLORENCE LOUISE (*History*).....(Mhntn) New York City  
Barnard College, A.B., 1904.
- || BEERS, FLORENCE EVELYN (*Latin*).....Jamaica, N. Y.
- || BELL, FLORENCE EMILY (*Secondary Teaching*).....Flushing, N. Y.
- || BENNETT, GEORGINA GRACE (*English*).....Hackensack, N. J.
- || BIGGIN, FLORENCE IRENE (*Latin*).....(Mhntn) New York City
- § BINZEL, ALMA LOUISE (*Kindergarten*).....Beaver Dam, Wis.  
State Normal School, Milwaukee, 1894.
- § BINZEL, CORA E. (*Domestic Science*).....Beaver Dam, Wis.
- BLAKE, CORNELIA DOUGLAS (*Manual Training*).....Talladega, Ala.  
State Normal College, Florence, Ala., 1898.
- \*\* BLOOD, ANNAH PRENTICE.....(Mhntn) New York City  
State Normal School, Salem, Mass., 1881.
- \*\* BOONE, CHESHIRE LAWTON.....Montclair, N. J.  
Michigan State Normal School.  
University of Michigan.
- BRADY, ANNA ROSE (*Kindergarten*).....Stapleton, S. I.  
State Normal School, Trenton, N. J., 1901.
- § BRISON, MARY JUANITA (*Fine Arts*).....West Gore, N. S., Canada  
Woman's Art School, Cooper Union N. Y., 1901-1903.
- || BROWN, ANN ELIZA (*Latin*).....Charlotte, N. C.
- § BROWNE, THOMAS JAMES (*Physical Education*).....Germantown, Pa.  
Y. M. C. A. Training School, Springfield, Mass., 1898.  
Boston Normal School of Gymnastics, 1899-1900.

- || Also a candidate for the A.B. degree.      † Candidate for the A.M. degree only.  
§ Also a candidate for the B.S. degree.      \*\* Candidate for the B.S. degree only.  
     ‡ Also a candidate for the A.M. degree.



- § BUCHER, HERMAN (*Fine Arts and Manual Training*).....(Mhtn) New York City  
 || BYRNE, MARGARET CECILIA (*Mathematics*).....(Bklyn) New York City  
 || CALHOUN, EMMA SHAW (*English*).....(Mhtn) New York City  
 || CARPENTER, LULU JANE (*Latin*).....Port Chester, N. Y.  
 || CATHCART, GERTRUDE LOUISE (*German*).....Plainfield, N. J.  
 § CHENEY, GEORGE WALKLEY (*Manual Training*).....(Bklyn) New York City  
     State Normal School, Jamaica, N. Y., 1899 and 1901.  
     State Normal School, New Paltz, N. Y., 1902-1903.  
 § CHURCH, MARION EMMA (*Elementary Teaching*).....Passaic, N. J.  
 \*\* CLARK, ANNA MANSFIELD.....Salisbury, Conn.  
 || COHEN, HELEN NESSA (*Mathematics*).....(Mhtn) New York City  
 § CONGER, DELLA LOUISE (*Kindergarten*).....New Brunswick, N. J.  
 || CONOVER, GRACE MORCELLE (*Mathematics*).....(Mhtn) New York City  
 COOPER, BLANCHE (*Domestic Science*).....McCammon, Idaho  
     Utah Agricultural College, Logan, Utah, B.S., 1901.  
 CRAIG, AGNES HOUSTON (*Domestic Art*).....Amity, N. Y.  
 § CRAWFORD, RICHARD MCLEOD (*Fine Arts*).....Greensboro, N. C.  
     Trinity College, Durham, N. C., 1892-1895.  
 DAVIDSON, MARY ELIZABETH SPENCE (*Elementary Teaching*)...(Mhtn) New York City  
     New York Normal College, 1891-1895.  
 || DAY, ELIZABETH (*History*).....(Mhtn) New York City  
 || DAY, HARRIET (*English*).....Chittenango, N. Y.  
     Cornell University, 1892-93.  
     Syracuse University, 1902-1904.  
 § DEAN, SARAH ELIZABETH (*Domestic Science*).....Ferrisburg, Vt.  
     University of Vermont, 1901-1903.  
 || DIETZ, EDITH AUGUSTA (*English*).....(Mhtn) New York City  
 DODGE, STELLA VAN VLIET (*Domestic Science*).....Syracuse, N. Y.  
     Syracuse University, 1885-1888.  
     Boston Cooking School, Boston, Mass., 1898-1899.  
 § DOLPHIN, MARY ELLEN (*History*).....(Mhtn) New York City  
 DONALDSON, SADELLA MARIE (*Elementary Teaching*).....Aberdeen, Miss.  
     Normal School, Tuskegee, Ala., 1899-1902.  
 § DOUGLAS, ISABEL RANDOLPH (*Music*).....(Mhtn) New York City  
 || DURANT, AGNES LACY (*Elementary and Secondary Teaching*)..(Mhtn) New York City  
 § DURFEE, CLAYTON G. (*History*).....Fredonia, N. Y.  
     Leland Stanford, Jr., University, 1897-1898.  
     State Normal School, Fredonia, N. Y., 1899.  
 † EGGLESTON, CHARLOTTE (*Mathematics*).....Tompkinsville, S. I.  
     Smith College, A.B., 1900.  
 † ELDER, SARAH (*English and History*).....Kalamazoo, Mich.  
     Kalamazoo College, Kalamazoo, Mich., A.B., 1898.  
     University of Chicago, A.B., 1900.  
 § ERDWURM, ELSIE (*Elementary Teaching*).....Jersey City, N. J.  
     Cornell University, 1901-1902.  
 EVANS, MARY (*Domestic Science*).....St. Louis, Mo.  
     Des Moines College, Des Moines, Ia., 1891-1892.  
 § EVANS, SUSAN IDA (*Elementary Teaching*).....Denton, Texas  
     Normal School, Denton, Texas, B.S., 1894.  
 || FALION, GEORGE MARCUS (*Latin, Greek, and Physical Education*) (Bkn) New York City  
 FARLOW, FLOE ANNE (*Elementary Teaching*).....Milroy, Ind.  
     State Normal School, Terre Haute, Ind., 1894-1900.  
     State Normal School, Greeley, Colo., Pd.B., 1902.

§ Also a candidate for the B.S. degree.

\*\* Candidate for the B.S. degree only.

|| Also a candidate for the A.B. degree.

† Also a candidate for the A.M. degree.

- ¶ FARRELLY, GRACE MARIE (*History*).....(Mhtn) New York City
- § FITCH, ELLICE HEATON (*Kindergarten*).....(Mhtn) New York City  
Barnard College, A.B., 1903.
- ¶ FLETCHER, SALLIE FAULKNER (*Latin*).....(Bklyn) New York City
- FORDEN, JAMES RUSSELL (*Manual Training*).....Springfield, Ill.  
State Normal School, Normal, Ill., 1901.  
University of Illinois, 1895-1897.
- ¶ FORMAN, ANITA GRACE (*Mathematics*).....(Mhtn) New York City
- § FORREST, NATALIE STERNBERG (*Domestic Science*).....(Mhtn) New York City  
Barnard College, 1900-1902.
- ¶ FRANKLIN, MARION (*Mathematics*).....(Mhtn) New York City
- FRIESS, LOTTIE LUCY (*Music*).....(Mhtn) New York City
- § FROST, LORENA M. (*Kindergarten*).....Norwood, N. Y.  
State Normal School, Potsdam, N. Y., 1897.  
Pratt Institute, Brooklyn, N. Y., 1904.
- § GADDIS, CAROLYN JOSEPHINE (*Elementary Teaching*).....Jersey City, N. J.  
New York Normal College, 1889.
- § GASH, ANNIE JEAN (*Domestic Science*).....Brevard, N. C.  
State Normal College, Greensboro, N. C., 1894-1895.  
Drexel Institute, Philadelphia, 1903-1904.
- § GLANTON, CORDELIA VIRGINIA (*Manual Training*).....Newman, Ga.  
Shorter College, Rome, Ga., 1883-1890.
- § GOODSSELL, WILLYSTINE (*English and History*).....Springfield, Mass.  
Welch Training School, New Haven, Conn., 1890.
- GOTTSCHALL, LOUIS (*Mathematics*).....(Br) New York City  
Columbia University, B.S., 1898; A.M., 1903.
- § GOULD, NONA (*Biology and Geography*).....Poughkeepsie, N. Y.  
Cook's Collegiate Institute, Poughkeepsie, N. Y., 1880-1883.  
Vassar College, 1901-1902.
- § GRAHAM, MARIA DANIEL (*Mathematics*).....Warrenton, N. C.  
Peabody Normal College, Nashville, Tenn., 1893-1895.
- § GRANT, EMMA COLLIER (*Kindergarten*).....Summit, N. J.
- § GRAVES, JAMES MARTIN (*Mathematics*).....Waddington, N. Y.  
State Normal School, Potsdam, N. Y., 1888.
- ¶ GRAY MARY GOULD (*Mathematics*).....(Bklyn) New York City
- § GRAY, SHIRLEY EUGENE (*Physical Science*).....Griggsville, Ill.  
University of Illinois, 1894-1896.
- § GRISWOLD, FLORENCE K. (Mrs.) (*Elementary Teaching*).....(Mhtn) New York City
- § HAEFFELIN, FANNY JOSEPHINE (*German*).....Mt. Vernon, N. Y.  
Lehrerinnen Seminar, Wolfenbüttel, Germany, 1899.
- ¶ HAGER, WARREN OTIS (*Greek*).....South Deerfield, Mass.
- \*\* HARRINGTON, GRACE AILEEN.....Detroit, Mich.  
Michigan Seminary, Kalamazoo, Mich., 1888-1892.
- § HARRIS, HOWARD STODDARD (*Manual Training*).....Middletown, N. Y.
- § HASTY, PHILIP S. (*Manual Training*).....Lansing, Mich.  
Michigan Agricultural College, 1899-1901.
- § HAYNES, ALICE FENTON (*Kindergarten*).....Montreal, Canada
- § HETSCHER, CLARA M. (*Fine Arts*).....Yreka, Calif.  
State Normal School, Chico, Calif., 1901-1903.
- § HIBBARD, FRANCES HENRIETTA (*Elementary Teaching*).....Montreal, Canada
- ¶ HOCHHEIMER, HELEN ALICE (*English*).....(Mhtn) New York City

¶ Also a candidate for the A.B. degree.

§ Also a candidate for the B.S. degree.

\*\* Candidate for the B.S. degree only.

- || HOFFMAN, MARGIE ETHEL (*English*).....(Bklyn) New York City  
 \*\* HOLT, EDITH.....Bloomfield, N. J.  
 Packer Collegiate Institute, Brooklyn, N. Y., 1902.
- \*\* HOWARD, MARGARETTA ELIZABETH.....North East, Pa.  
 State Normal School, Fredonia, N. Y., 1886-1889.
- § HUNTING, ELLA (*Elementary and Secondary Teaching*).....Hartford, Conn.  
 State Normal School, New Britain, Conn., 1894-1896.
- JAMES, CLARA CHANEY (*Elementary Teaching*).....Oshkosh, Wis.  
 State Normal School, Oshkosh, Wis., 1881-1882.  
 Kindergarten Training School, St. Louis, Mo., 1882-1883.
- JENKINS, HANNAH T. (Mrs.) (*Fine Arts*).....Germantown, Pa.  
 Pennsylvania Academy of Fine Arts, Philadelphia, 1894-1899.
- JEWELL, ISABELLE E. (*Domestic Science*).....London, Canada  
 Massachusetts General Hospital, Boston, 1897.  
 Massachusetts Lying-In Hospital, Boston, 1901.
- JONES, MARION ELIZABETH (*Domestic Science*).....Manhattan, Kan.  
 Kansas State Agricultural College, M.S., 1901.
- || KAPLAN, CARRIE (*English*).....(Mhntn) New York City  
 || KENNEDY, ANNE JOSEPHINE (*History*).....(Bklyn) New York City  
 § KUNZ, KATHERINE ANNA (*French and German*).....München, Germany  
 The Sorbonne, Paris, 1883-1887.  
 Seminar, Baden, Germany, 1893.
- § LAWRENCE, LILLIE MARIA (*Latin*).....Lebanon, N. H.  
 Normal School, Framingham, Mass., 1891-1893.
- § LEE, MARY (*History*).....Knoxville, Tenn.  
 University of Tennessee, B.S., 1902.
- || LEE, MARY DAY (*Physical Science*).....New Rochelle, N. Y.  
 || LOBW, FREDERICA (*German*).....(Mhntn) New York City.
- § LUCEY, MICHAEL HENRY (*History*).....New Paltz, N. Y.  
 State Normal School, New Paltz, N. Y., 1897-1899.
- LYON, EDITH ELLEN (*Fine Arts*).....Yonkers, N. Y.
- § MCEVOY, ELIZABETH (*Mathematics*).....(Mhntn) New York City  
 New York Normal College, A.B., 1892.
- § MCGAHEY, MARY WILSON (*Manual Training*).....Lincoln, Neb.  
 University of Nebraska, A.B., 1898.
- McGHEE, MARY (*Elementary Teaching*).....Greenwood, S. C.  
 Columbia Female College, Columbia, S. C., A.B., 1887.
- § MACINNESS, ALEXANDRA (*History and English*).....Elizabeth, N. J.  
 Hamilton Ladies' College, Hamilton, Canada, M.E.L., 1890.  
 Ontario Normal College, Canada, 1898.
- § MCKAY, MARGARET ELLIOTT (*Elementary Teaching*).....Wilmington, Del.
- § MADDOCK, CATHERINE LORETTA (*Kindergarten*).....(Mhntn) New York City
- § MAEDER, EMILY LYDIA (*Domestic Science*).....(Mhntn) New York City
- § MARTEN, CHARLES (*Manual Training*).....Philadelphia, Pa.
- § MARTEN, WILLIAM SAMUEL (*Manual Training*).....Philadelphia, Pa.
- MARTIN, ALICE (*Kindergarten*).....Plattsburgh, N. Y.  
 State Normal School, Plattsburgh, N. Y., 1898-1900.
- § MARTIN, HELEN PATTERSON (*Latin*).....Medlock, Va.  
 Wilson's College, Chambersburg, Pa., A.B.
- § MATHER, IDA E. (*Kindergarten*).....Elizabeth, N. J.  
 State Normal School, Trenton, N. J., 1899-1901.
- § MATHEWS, JANE (*Mathematics*).....Oswego, N. Y.  
 State Normal School, Oswego, N. Y., 1884.

\*\* Candidate for the B.S. degree only.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.

- § MATHEWSON, CHESTER ARTHUR (*Biology*).....Cincinnati, Ohio  
University of Cincinnati, 1901-1903.  
Yale University, 1903-1904.
- § MEEKER, MARY MADELEINE (*Fine Arts*).....(Mhtn) New York City
- MERRIMAN, ELSIE A. (*Music*).....(Mhtn) New York City  
New England Conservatory of Music, Boston, Mass., 1883-1884.
- || MESSER, WILLIAM STUART (*Latin and Mathematics*).....Jersey City, N. J.
- MILLER, BERTHA MELVILLE (*Domestic Science*).....Franklin, Ind.  
Franklin College, Franklin, Ind., Ph.B., 1900.
- § MOORE, EDNA M. (*Kindergarten*).....Philadelphia, Pa.
- || MOTT, ISABELLE (*English*).....(Mhtn) New York City
- || MUNROE, ELEANORA LOUISE (*English*).....(Mhtn) New York City
- MURPHY, EDNA NEVILLE (*Fine Arts*).....Yonkers, N. Y.  
New York School of Applied Design, 1901-1903.
- † NEWCOMER, HARVEY (*Secondary Teaching*).....(Mhtn) New York City  
Franklin and Marshall College, A.B., 1892; A.M., 1895.
- § NEWPHER, HELEN (*Physical Education*).....Cleveland, O.  
Cleveland Kindergarten Training School, 1895-1897.
- NICHOLAS, EMILY (*Elementary Teaching*).....Newark, N. J.  
State Normal School, Trenton, N. J., 1890-1892.
- || NYE, FLORENCE ISABELLE (*History*).....(Mhtn) New York City
- § OLIVER, JOSEPH WARREN (*Manual Training*).....Nanticoke, Pa.  
State Normal School, East Stroudsburg, Pa., 1897.
- OWEN, MAE (*Domestic Science*).....Los Angeles, Calif.  
Visalia Normal School, Visalia, Calif., 1877-1879.
- \*\* OWEN GRACE.....London, Eng.
- || PALLISER, HELEN LETITIA (*Biology*).....(Bklyn) New York City
- § PARSONS, FRANK ALVA (*Fine Arts*).....(Mhtn) New York City  
Normal School, Bridgewater, Mass., 1892.  
School of Composition and Design, Paris, 1897-1898.
- \*\* PELTON, EDITH CHESTER.....Hartford, Conn.
- POOTS, ANNA (*Elementary Teaching*).....Berea, O.  
Baldwin University, Berea, O., 1884-1887.
- § PROCTOR, ROBERT HUNTINGTON (*Physical Science*).....(Q) New York City  
Cooper Institute, B.S., 1903.
- RAYNOLDS, PANSY SARA (*Domestic Science*).....Carson City, Colo.  
Colorado College, Colorado Springs, Ph.B., 1892.
- || REEDER, RUTH ANGELINE.....Hastings-on-Hudson, N. Y.
- || REILEY, ANNA CAMPBELL (*Latin*).....Tarrytown, N. Y.
- REPPENHAGEN, LEILA (*Kindergarten*).....Highland Falls, N. Y.
- || RIBLET, RONALD FRANK (*English*).....(Mhtn) New York City
- \*\* RICH, JESSIE PINNING.....(Mhtn) New York City
- ROGERS, MARIA A. (*Elementary Teaching*).....Portland, Me.  
Smith College, B.L., 1892.
- § ROLLINSON, EDITH HOYT (*Elementary Teaching*).....Rahway, N. J.
- § ROTH, HELEN CHRISTINE MILDRED (*German*).....Pittsburg, Pa.  
Thiel College, A.B., 1902.
- RUSSELL, ELIZABETH LINCOLN (*Domestic Science*).....New Bedford, Mass.  
Smith College, B.L., 1903.
- \*\* SAAM, ELSA.....Philadelphia, Pa.  
Normal School, Philadelphia, Pa., 1890.
- † SAPIR, EDWARD (*German*).....(Mhtn) New York City  
Columbia University, A.B., 1904.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.

† Also a candidate for the A.M. degree.

\*\* Candidate for the B.S. degree only.



- || SCHULTZ, NINA (*Mathematics*).....(Mhtn) New York City  
 || SERCOMB, MARGARET GRACE (*Mathematics*).....Milwaukee, Wis.  
 § SEWARD, ELIZABETH KIMBER (*Geography*).....(Mhtn) New York City  
 SHEIB, LEONORA W. (MRS.) (*Music*).....Natchitoches, La.  
     Millersburg Female College, 1880-1882.  
 § SIMONS, LAO GENEVRA (*Mathematics*).....(Mhtn) New York City  
     Teachers College, 1889.  
     Vassar College, 1893-1894.  
 § SKINNER, NORA TAYLOR (*Domestic Science*).....Washington, D. C.  
     Barnard College, 1901-1902.  
     Woman's College, Baltimore, Md., 1902-1903.  
 || SMITH, ALICE VAN WOERT (*Latin*).....(Mhtn) New York City  
 § SMITH, EVELYN CECILE (*Domestic Art*).....Plattsburgh, N. Y.  
     State Normal School, Plattsburgh, N. Y., 1896.  
 || SMITH, LESLIE BREWSTER (*Mathematics and Physical Education*)..Mt. Vernon, N. Y.  
 SMITH, LINDA MAY (*Music*).....Borodino, N. Y.  
     Normal School, Cortland, N. Y., 1892-1895.  
 || SNYDER, ARRIETTA (*Mathematics*).....Newburgh, N. Y.  
     Wellesley College, 1891-1893.  
     State Normal College, Albany, N. Y., 1894-1896.  
 || SOLOMON, CHARLOTTE LOUISE (*Latin*).....(Mhtn) New York City  
 § SOWELS, ELIZABETH BECKWITH (*History*).....Plattsburgh, N. Y.  
     State Normal School, Plattsburgh, N. Y., 1897-1900.  
 || SPARKMAN, LYDIA HOLT (*History*).....Paterson, N. J.  
 † SPENCER, CARTIA (*Secondary Teaching*).....(Mhtn) New York City  
     Barnard College, A.B., 1902.  
 || STABER, HILDA LOUISE (*English*).....(Bklyn) New York City  
 § STACKPOLE, CAROLINE EMMARETTE (*Biology*).....Plattsburgh, N. Y.  
     State Normal School, Plattsburgh, N. Y., 1899.  
 STAFFORD, CLARA BENNETT (*Fine Arts*).....Manchester, Vt.  
 START, MARGARET HUBBELL (MRS.) (*Music*).....Chazy, N. Y.  
 || ST. GEORGE, ALBERT HARRINGTON (*German and History*).....Mt. Vernon, N. Y.  
 STOCKBRIDGE, ANNA MAY (*Domestic Art*).....Northampton, Mass.  
     Mt. Holyoke College, 1883-1884.  
 § STUART, FLORA (*Elementary Teaching*).....Wytheville, Va.  
 STUBBS, H. MAY (*Fine Arts*).....West Philadelphia, Pa.  
 TAMAGNO, GRACE (*Physical Education*).....(Mhtn) New York City  
 § TAPLIN, EARL GARFIELD (*Mathematics*).....Oswego, N. Y.  
     State Normal School, Oswego, N. Y., 1898-1902.  
 || TATTERSHALL, ANNA SARAH (*Mathematics*).....White Haven, Pa.  
 § TAYLOR, BESSIE RHETON (*Mathematics*).....Southport, Conn.  
     Mt. Holyoke College, 1877-1881.  
 TAYLOR, JESSIE ELMA (*Fine Arts*).....(Mhtn) New York City  
     Woman's Art School, Cooper Union, 1902.  
 § TELFORD, GRACE CATHERINE (*Domestic Science*).....Newburgh, N. Y.  
     Mt. Holyoke College, 1901-1903.  
 † TERRETT, MILDRED (*Physical Science*).....Clinton, N. Y.  
     Wells College, A.B., 1904.  
 || THORP, ANNA FRANCES MURIEL (*English*).....Paterson, N. J.  
 TINGES, KATE W. (*Kindergarten*).....Gettysburg, Pa.  
     Kindergarten Training School, Baltimore, Md., 1899-1900.  
 WAKELEE, MARGARET JOURNEY (*Kindergarten and Elementary Teaching*) Mt. Pleasant,  
     Mich.  
     Grand Rapids Kindergarten Training School, 1893-1897.

§ Also a candidate for the B.S. degree.      || Also a candidate for the A.B. degree.

‡ Also a candidate for the A.M. degree.

- WALLACE, RUTH M. (*Music*).....(Mhtn) New York City  
 WATERBURY, AVIS (*Fine Arts*).....Augusta, Wis.  
     State Normal School, River Falls, Wis., 1885.
- WEEMS, FRANCES (*Kindergarten*).....Roland Park, Md.  
     Kindergarten Training School, Baltimore, Md., 1895-1899.
- WEIDMAN, EDITH IRENE (*Domestic Art*).....Easton, Pa.  
 || WELLE, EDITH (*Mathematics*).....Paterson, N. J.  
 WHITE, MARGARET CECILIA (*Music*).....Yonkers, N. Y.  
 § WHITLEY, MARY THEODORA (*English*).....Ottawa, Canada  
 § WHITNEY, NORA BELLE (*Mathematics*).....Clayton, N. Y.  
     State Normal School, Potsdam, N. Y., 1884-1888.
- WILKINSON, EDITH LAKE (*Fine Arts*).....Wheeling, W. Va.  
 WOODRUFF, JOHN KELLOGG (*Fine Arts*).....Bridgeport, Conn.  
 WORK, NORMAN PORTER (*Manual Training*).....Yonkers, N. Y.  
     Massachusetts Institute of Technology, 1884-1885.
- § WYCKOFF, HARRIET ELVIRA (*History*).....Cuba, N. Y.  
     State Normal School, Geneseo, N. Y., 1887.

## JUNIOR CLASS

- § ABELOW, SAMUEL PHILLIP (*Secondary Teaching*).....(Bklyn) New York City  
     N. Y. Training School for Teachers, 1902.
- ACKEN EVA ADALENE (*Secondary Teaching*).....(Bklyn) New York City  
     State Normal School, Jamaica, N. Y., 1900-1903.
- § AGNEW, THOMAS, JR. (*Elementary Teaching*).....Bloomfield, N. J.  
     State Normal School, New Paltz, N. Y., 1898.
- ALLAN, AGNES CECILIA (*Music*).....(Mhtn) New York City  
 ALLEN, ANNA BESSIE (*Secondary Teaching*).....(Bklyn) New York City  
     Packer Collegiate Institute, Brooklyn, N. Y., 1899.
- || ANDERSON, HELEN BEATRICE (*Secondary Teaching*).....(Astoria), New York City  
 § ANDERSON, SUSIE FARLEY (*Secondary Teaching*).....Union Springs, N. Y.  
     State Normal School, Brockport, 1902.
- ANTHONY, HETTIE MARGUERITE (*Domestic Science*).....Maryville, Mo.  
     University of Missouri, A.B., 1901.
- ASH, LILLIE MAY (*Domestic Science*).....Athens, Ga.  
     Georgia Normal and Industrial College, Milledgeville, Ga., 1901.
- § AYRES, FLORENCE (*Elementary Teaching*).....Newark, N. J.  
     New Jersey State Normal School, 1894.
- § BACK, LILIAN (*Kindergarten*).....East Orange, N. J.
- § BAKER, BYRON WARREN (*Secondary Teaching*).....(Mhtn) New York City  
     State Normal School, Oneonta, N. Y., 1896.
- BAKER, ELBANOR MAY (*Elementary Teaching*).....Paterson, N. J.  
     Paterson Normal School, 1898.
- BARKLEY, FLORENCE HOWELL (*Fine Arts*).....Maysville, Ky.  
     Cincinnati Art Academy, 1898-1900.  
     Pennsylvania Academy, 1900-1901.
- BERRY, HOWARD B. (*Manual Training*).....Clarence Center, N. Y.  
 || BLACKBURN, LOUISA POWELL (*Secondary Teaching*).....Baltimore, Md.  
 BLACKMAN, EDITH (*Domestic Science*).....(Mhtn) New York City  
     Teachers College, 1890-1891.  
     School of Domestic Science, Boston, 1904.
- BLAKE, EMMA THORNTON (*Domestic Art*).....Talladega, Ala.

|| Also a candidate for the A.B. degree.

§ Also a candidate for the B.S. degree.

- BOICE, CARRIE LOUISA (*Domestic Art*).....Kennett Square, Pa.  
State Normal School, West Chester, Pa., 1887-1889.
- || BRANDS, CARL (*Secondary Teaching*).....(Mhtn) New York City
- || BRAUTIGAN, ELIZABETH RANDALL (*Secondary Teaching*).....East Orange, N. J.
- § BRETT, EDITH M. (*Secondary Teaching*).....Flushing, N. Y.  
State Normal School, Oneonta, N. Y., 1895.  
State Normal College, Albany, N. Y., Pd B., 1898.
- BROOKS, ANNA PAMELA (*Fine Arts*).....Redlands, Calif.  
Tabor College, Tabor, Ia., A.B., 1897.  
Boston University, A.B., 1897.
- BROWN, BESSIE ANNA (*Elementary Teaching*).....North Stonington, Conn.  
State Normal School, Willimantic, Conn., 1894.
- BROWN, HELEN ANNA (*Manual Training*).....Roulette, Pa.  
Central State Normal School, Lock Haven, Pa., 1898.
- § BROWN, MARY ANNA (*Secondary Teaching*).....Leptondale, N. Y.  
State Normal School, New Paltz, N. Y., 1894.
- || BROWNE, MABEL EMMA (*Secondary Teaching*).....(Bklyn) New York City
- § BURKE, DANIEL LAWRENCE (*Secondary Teaching*).....Winthrop, N. Y.  
State Normal School, Potsdam, N. Y., 1901.
- CAMPBELL, ANNIE (*Fine Arts*).....Dayton, Ohio  
Normal School, Dayton, Ohio, 1880.  
University of Chicago, 1895-1896.
- § CHAPMAN, EDITH (*Kindergarten*).....Jamaica, N. Y.
- || CHAPMAN, EMMA AUGUSTA (*Secondary Teaching*).....Jersey City, N. J.
- § CHAPMAN, JESSAMINE MAY (*Domestic Science*).....Brookport, N. Y.  
State Normal School, Brookport, N. Y., 1901.
- || CHIPPERFIELD, FAITH DELATOUR (*Secondary Teaching*).....(Mhtn) New York City
- CHRISMAN, M. BERTHA (*Domestic Science*).....Harrisburg, Pa.  
State Normal School, Bloomsburg, Pa., M.E., 1890.
- § CLARE, MARY ELEANOR (*Secondary Teaching*).....(Mhtn) New York City  
New York Normal College, 1889.
- § COLEMAN, LAURA GANNT (*Secondary Teaching*).....Carrollton, Ga.  
Georgia Normal and Industrial College, Milledgeville, Ga., 1902.
- || CONDIT, JESSIE PARSONS (*Secondary Teaching*).....East Orange, N. J.
- § COTTER, MAY AGNES (*Secondary Teaching*).....Plattsburgh, N. Y.  
State Normal School, Plattsburgh, N. Y., 1901.
- § CRANE, ELLA E. (*Secondary Teaching*).....Canandaigua, N. Y.  
State Normal School, Geneseo, N. Y., 1887.
- § CROKER, JOHN CHARLES (*Secondary Teaching*).....(Bklyn) New York City.  
St. Joseph's College, Dumfries, Scotland, 1875-1878.  
Normal College, Glasgow, Scotland, 1878-1879.
- § CRONAN, FRANCES J. (*Elementary Teaching*).....(Mhtn) New York City  
New York Normal College, 1891.
- CROSSLEY, BERTHA M. (*Elementary Teaching*).....Danville, Pa.  
State Normal School, Bloomsburg, Pa., M.E., 1902.
- DAMON, LOUIS AGASSIZ (*Manual Training*).....Newcastle, Calif.
- || DARRIN, KATHERINE E. (*Secondary Teaching*).....Addison, N. Y.
- DARROW, RUTH (*Music*).....New London, Conn.
- § DEACON, HELEN GRAZIELLA (*Domestic Science*).....(Mhtn) New York City
- § DEAN, MARTHA ELIZABETH (*Fine Arts*).....Wilkes-Barre, Pa.
- DEEHAN, ALICE MAUDE (*Domestic Science*).....Waterville, Me.  
Normal and Training School, Portland, Me., 1885.

§ Also a candidate for the B.S. degree.      || Also a candidate for the A.B. degree.

- § DE GRAFF, FORREST ALLISON (*Secondary Teaching*).....Holley, N. Y.  
State Normal School, Brockport, N. Y., 1893.
- § DEYO, LOUIS DEWITT (*Secondary Teaching*).....Nutley, N. J.  
State Normal School, New Paltz, N. Y., 1897.
- || DICKLER, NATHAN N. (*Secondary Teaching*).....(Bklyn) New York City
- § DIXON, ELIZABETH S. (*Secondary Teaching*).....Winona, Minn.  
State Normal School, Winona, Minn., 1891.  
Smith College, 1893-1895.
- DOANE, CLARA L. (*Kindergarten*).....Detroit, Mich.  
Froebel Association Training School, Chicago, Ill., 1889.
- DODDS, MARTHA E. (*Elementary Teaching*).....Delhi, N. Y.  
State Normal School, Oswego, N. Y., 1893-1894.  
State Normal School, New Paltz, N. Y., 1899.
- § DOLAN, PATRICIA MARIA (*Elementary Teaching*).....(Mhtn) New York City  
New York Normal College, 1892.
- || DONNELLY, MARGUERITE KAUGHRAN (*Secondary Teaching*)... (Mhtn) New York City
- DONOVAN, HELEN (*Domestic Art*).....Rochester, N. Y.
- || DORSETT, LOVENIA ADELE (*Secondary Teaching*).....Jamaica, N. Y.
- DOWD, ELEANOR M. (*Elementary Teaching*).....Astoria, New York  
Mt. Holyoke College, 1885-1886.  
State Normal School, Oswego, N. Y., 1890.
- § DUBOIS, SOLOMON ELTING (*Secondary Teaching*).....(Mhtn) New York City  
State Normal School, New Paltz, N. Y., 1890.
- DUNN, GEORGE STUART (*Fine Arts*).....Ticonderoga, N. Y.
- || EASTMAN, LUCY PUTNAM (*Secondary Teaching*).....(Mhtn) New York City
- ELTINGE, LOUISE (*Elementary Teaching*).....New Paltz, N. Y.
- || ERNST, MATHILDA (*Secondary Teaching*).....(Mhtn) New York City
- || EVANS, ELIZABETH GRACE (*Secondary Teaching*).....(Mhtn) New York City
- FAGAN, FANNY (*Fine Arts*).....Buffalo, N. Y.  
State Normal and Training School, Buffalo, N. Y., 1897.
- || FAIRCHILD, RUTH DEANE (*Secondary Teaching*).....Suffern, N. Y.
- FALES, JANE THERESE (*Domestic Art*).....Rockland, Me.
- FALLS, LAURA (*Manual Training*).....Kings Mountain, N. C.  
State Normal College, Greensboro, N. C., 1893-1896.
- FALLS, MARY ELIZABETH (*Elementary Teaching*).....Kings Mountain, N. C.  
Winthrop Normal and Industrial College, Rock Hill, S. C., 1891.
- § FITZPATRICK, EDWARD AUGUSTUS (*Secondary Teaching*).....(Mhtn) New York City  
New York Training School for Teachers, 1903.
- FLAGG, ETTA PROCTOR (*Domestic Science*).....Hollis, N. H.  
Boston Normal School of Cookery, Boston, Mass., 1892.  
Normal College, Springfield, Mass., 1893-1894.
- || FONTAINE, MARIE LOUISE PAUL (*Secondary Teaching*).....(Mhtn) New York City
- § FORTMAN, AUGUSTA (*Secondary Teaching*).....Union Hill, N. J.
- || FOSHAY, FLORENCE ELIZABETH (*Secondary Teaching*).....Port Chester, N. Y.
- § FRANCIS, CAROLYN LOUISE (*Secondary Teaching*).....Honeoye Falls, N. Y.  
State Normal School, Brockport, N. Y., 1895.
- § FRANCIS, CHARLOTTE ANNE (*Secondary Teaching*).....Honeoye Falls, N. Y.
- § FRASER, ISABEL M. (*Fine Arts*).....Buffalo, N. Y.
- || FREED, JULIA HUELAT (*Secondary Teaching*).....(Mhtn) New York City
- § FULLER, GRACE M. (*Domestic Art*).....Grand Rapids, Mich.  
Grand Rapids Medical College, 1902-1904.
- FURST, MARY LOUISE (MRS.) (*Domestic Science*).....Yonkers, N. Y.  
Pennsylvania College, Pittsburgh, Pa., 1890-1892.  
Woman's College of Baltimore, A.B., 1896.

§ Also a candidate for the B.S. degree.      || Also a candidate for the A.B. degree.



- GALACAR, LAURA JOSEPHINE (*Domestic Science*).....Springfield, Mass.  
Smith College, B.L., 1897.
- GALLAHER, ADA ROSE (*Elementary Teaching*).....New Washington, Pa.  
Indiana Normal School of Pennsylvania, Indiana, Pa., B.E., 1896.
- § GARRETSON, EMMA MOLESWORTH (*Secondary Teaching*).....Alameda, Calif.  
University of Leipsic, 1895-1896.  
College of France, 1896-1897.
- || GELBACH, MARIE (*Secondary Teaching*).....(Mhntn) New York City
- § GILBERT, CLARA MARIA (*Secondary Teaching*).....Pittsford, Vt.  
State Normal School, Peru, Neb., 1892-1893.
- § GILL, LULU GENEVIEVE (*Physical Education*).....Stapleton, N. Y.
- GINGLES, MAE M. (MRS.) (*Domestic Art*).....Eaton Rapids, Mich.  
Michigan Agricultural College, 1891-1893.
- § GOERTNER, ROSE L. (MRS.) (*Secondary Teaching*).....(Mhntn) New York City  
New York Normal College, 1883.
- § GOODRICH, BESSIE BACON (*Elementary Teaching*).....Kalamazoo, Mich.  
State Normal College, Ypsilanti, Mich., 1901.
- § GRANT, AMY A. (MRS.) (*Secondary Teaching*).....(Mhntn) New York City  
University of Chicago, 1896.  
Chicago Musical College, 1901-1902.
- GREENWOOD, GRACE (*Domestic Science*) .....Hartford, Conn.  
Massachusetts Institute of Technology, 1895-1896.
- || HALL, CAROLINE DUMONT (*Secondary Teaching*).....Mt. Vernon, N. Y.
- HARSHE, ROBERT BARTHOLOW (*Manual Training*).....Columbia, Mo.  
University of Missouri, B.L., 1899.
- || HART, ADELAIDE (*Secondary Teaching*).....(Mhntn) New York City
- § HAS BROUCK, MARTIN (*Elementary Teaching*).....Paterson, N. J.  
State Normal School, New Paltz, N. Y., 1895.
- || HASKELL, ALICE GALACAR (*Secondary Teaching*).....Providence, R. I.  
Miss Fisher's Kindergarten Training School, Boston, Mass., 1888.
- HATHEWAY, CLARA ROSE (*Fine Arts*).....Stamford, Conn.  
Woman's Art School, Cooper Institute, New York City, 1885.  
Art Student's League, New York City, 1889.
- || HAYNES, JESSIE ELIZABETH (*Secondary Teaching*).....(Mhntn) New York City
- HILL, JULIA AVA (*Fine Arts*).....The Dalles, Ore.  
University of Oregon.
- HINTON, ESTELLE (*Elementary Teaching*).....Springfield, Mo.
- || HIRSCHBERG, STUART (*Secondary Teaching*).....Newburgh, N. Y.
- § HODGE, HATTIE MASON (*Kindergarten*).....Burlington, Vt.  
University of Vermont, A.B., 1903.
- § HOPE, EDNA EARLE (*Physical Education*).....Knoxville, Tenn.  
University of Tennessee, 1902-1903.
- § HOWARD, ETHEL LOUISA (*Elementary Teaching*).....Farmington, Me.  
State Normal School,<sup>1</sup>Farmington, Me., 1900.
- § HOWELL, ABBY STOUT (*Fine Arts*).....New Brunswick, N. J.
- § HOYT, JOHN HERBERT (*Elementary Teaching*).....Little Falls, N. Y.  
State Normal School, Oneonta, N. Y., 1902.
- § ISLES, MAUDE M. (*Fine Arts*).....(Mhntn) New York City  
Cooper Union, New York City, 1900.
- || JAMES, BERTHA CLARKSON (*Secondary Teaching*).....Rahway, N. J.
- JONES, JANE D. (*Elementary Teaching*).....Hackensack, N. J.  
State Normal School, Trenton, N. J., 1899.

§ Also a candidate for the B.S. degree.      || Also a candidate for the A.B. degree

- § JONES, RUTH H. (*Elementary Teaching*).....Hackensack, N. J.  
State Normal School, Trenton, N. J., 1901.
- KERNS, MAUDE I. (*Fine Arts*).....Eugene, Ore.  
University of Oregon, A.B., 1899.
- KISSELL, MARY L. (*Fine Arts*).....Chicago, Ill.  
Art Institute, Chicago, Ill., 1892.
- || KNOX, ETHEL MAY (*Secondary Teaching*).....(Mhtn) New York City
- || KOHUT, ELSIE (*Elementary Teaching*).....(Mhtn) New York City
- || KRAETZER, EDGAR RAYMOND (*Secondary Teaching*).....(Mhtn) New York City
- § KRUSE, AMY (*Secondary Teaching*).....Hoboken, N. J.  
State Normal School, Trenton, N. J., 1900.
- || LEE, ANNIE (*Secondary Teaching*).....Poland, Ohio
- LESTER, MARY LOUISE (*Domestic Science*).....Chicago, Ill.  
Lawrence University, Wis., 1888-1889.
- || LEWIS, BESSIE LENA (*Secondary Teaching*).....Mt. Vernon, N. Y.
- || LILIENTHAL, FLORENCE P. (*Secondary Teaching*).....(Mhtn) New York City
- § LIPKE, JOSEPH (*Secondary Teaching*).....(Mhtn) New York City  
Training School for Teachers, New York City, 1903.
- LOBDELL, JOHN NATHAN (*Manual Training*).....Hartford, Conn.  
State Normal School, Potsdam, N. Y., 1894.
- § LONG, KATHRYN MARIE (*Kindergarten*).....Emporia, Kansas.  
College of Emporia, Kansas, A.B., 1901.  
State Normal School, Emporia, Kansas, 1904.
- § LUDWIG, AUGUSTUS (*Secondary Teaching*).....(Bklyn) New York City  
State Normal School, Jamaica, N. Y., 1900.
- § LUTES, MABEL MADELINE (*Domestic Science*).....Indianapolis, Ind.  
Lasell Seminary, Auburndale, Mass., 1895.
- || MACCOLL, GRACE BEATRICE (*Secondary Teaching*).....(Mhtn) New York City
- || MACCOLL, JENNETTE (*Secondary Teaching*).....(Mhtn) New York City
- § MACDONALD, CATHERINE (*Secondary Teaching*).....(Mhtn) New York City
- § MARSH, ALICE LOUISE (*Secondary Teaching*).....Detroit, Mich.
- MARSH, DELLA (*Domestic Science*).....New Hope, N. Y.
- § MARTIN, MABEL T. (*Domestic Science*).....Los Angeles, Calif.  
University of Southern California, 1896-1898.
- § MAXWELL, CHARLES ROBERT (*Secondary Teaching*).....Waitsfield, Vt.  
Norwich University, Northfield, Vt., 1895-1896.
- MEACHAM, BIRDIE ELIZABETH (*Music*).....Anderson, Texas  
State Normal School, Texas.
- § MEADE, REBECCA PAULDING (*Elementary Teaching*).....(Mhtn) New York City
- MILLER, ETHELWYN (*Fine Arts*).....Franklin, Ind.  
Franklin College, Ind., A.B., 1894.  
Boston University, Boston, Mass., 1896-1897.
- MOIR, WINNIFRED M. (*Domestic Science*).....Marcellus, N. Y.  
State Normal College, Albany, N. Y., 1898.
- MORRIS, MARIE (*Kindergarten*).....Buffalo, N. Y.  
Free Kindergarten Training School, Buffalo, N. Y., 1894.
- MURDOCH, ADA MARY (*Fine Arts*).....(Mhtn) New York City  
School of Art, Edinburgh, Scotland, 1888.
- § MURPHY, JANE FRANCES (*Music*).....Richmond Hill, N. Y.
- NABERSBERG, BERTA JULIA (*Fine Arts*).....St. Paul, Minn.  
Art Students' League, New York City, 1902-1903.  
Pratt Institute, Brooklyn, N. Y., 1903-1904.
- || NIES, MINNIE ANTOINETTE (*Secondary Teaching*).....Paterson, N. J.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.

- OAKLEY, FRANCES HANNAH (*Fine Arts*).....Huntington, N. Y.  
 § O'BRIEN, SAIDA WARREN (*Elementary Teaching*).....Weehawken, N. J.  
 § OWEN, KATHERINE BOWDITCH (*Elementary Teaching*).....Hartford, Conn.  
 PEAL, AMELIA ELIZABETH (*Domestic Science*).....Newark, N. J.  
     State Normal School, Newark, N. J., 1888.
- || PETER, GEORGE WILLIAM (*Secondary Teaching*).....(Mhntn) New York City  
 § PEYSER, ETHEL ROSE (*Domestic Science*).....(Mhntn) New York City  
     Vassar College, Poughkeepsie, N. Y., 1901.
- PHILLIPS, MAY (*Fine Arts*).....Natchitoches, La.  
     State Normal School, Natchitoches, La., 1898.
- § PIERSON, CLEMENTINE M. (*Domestic Science*).....Oshkosh, Wis.  
     State Normal School, Oshkosh, Wis., 1892.
- || PLATE, HAZEL HUDNALL (*Secondary Teaching*).....(Mhntn) New York City  
 § POLLITZER, MABEL L. (*Secondary Teaching*).....Charleston, S. C.  
     Menninger Normal School, Charleston, S. C., 1904.
- || POST, CATHERINE MARY (*Secondary Teaching*).....(Q) New York City  
 || POST, ELIZABETH SMITH (*Secondary Teaching*).....(Q) New York City  
 § PRENTICE, IDA WHITCOMB (*Fine Arts*).....(Mhntn) New York City  
     Denver University, Denver, Colo., 1888-1892.  
     School of Applied Design, New York City, 1900-1901.
- || RAE, ANNE MUTCH (*Secondary Teaching*).....(Mhntn) New York City  
 RALSTON, HENRIETTA (*Fine Arts*).....Nineveh, Ind.  
 § REEDER, IRENE (*Domestic Science*).....Hastings, N. Y.  
     Barnard College, 1902-1904.
- REID, JOSEPH WHITNEY (*Manual Training*).....Reidville, S. C.  
     Davidson College, Davidson, N. C., A.B., 1882.
- § REILLY, KATHARINE ALOYSIA (*Secondary Teaching*).....(Mhntn) New York City  
 || REJALL, ALFRED E. (*Elementary Teaching*).....(Bklyn) New York City  
 || RICH, MABEL ELIZABETH WEISS (*Secondary Teaching*).....Mt. Vernon, N. Y.  
 § RICHARDS, FLORENCE SAEGER (*Secondary Teaching*).....Minersville, Pa.  
     State Normal School, Bloomsburg, Pa., M.E., 1889.
- || ROHR, MADELEINE DOROTHEA (*Secondary Teaching*).....Westchester, N. Y.  
 § ROTH, LINA ELISE (*Fine Arts*).....(Mhntn) New York City  
     New York Normal College, A.B., 1903.
- § RUBENS, CHARLES (*Elementary Teaching*).....(Mhntn) New York City  
     University of Cincinnati, 1901-1904.  
     Hebrew Union College, Cincinnati, O., A.B., 1902.
- § RUSSAK, LOTTA BERNHARDINE (*Secondary Teaching*).....(Mhntn) New York City  
 || RUSSELL, ISABELLE KATHARINE (*Secondary Teaching*).....(Bklyn) New York City  
 || SALIK, AUGUSTA (*Secondary Teaching*).....(Mhntn) New York City  
 SANFORD, LUCY KNOX REYNOLDS (MRS.) (*Domestic Science*)....(Mhntn) New York City  
     State Normal College, Albany, N. Y., 1881.
- § SARGEANT, IDE GILL (*Secondary Teaching*).....Paterson, N. J.  
     University of Vermont, 1894-1897.  
     New York Law School, 1900-1901.
- || SCHLAGETER, FLORENCE (*Secondary Teaching*).....Paterson, N. J.  
 || SCHMIDT, CLARA HELENE (*Secondary Teaching*).....Mt. Vernon, N. Y.  
 § SEATON, GRACE MARIA (*Elementary Teaching*).....Astoria, N. Y.  
     State Normal College, Albany, N. Y., 1892-1893.
- || SEELIGMAN, IRMA SCOTT (*Secondary Teaching*).....(Mhntn) New York City  
 SHEPPARD, EMMA ELIZA (*Fine Arts*).....Daretown, N. J.  
     State Normal School, Trenton, N. J., 1897.  
     School of Industrial Art, Philadelphia, Pa., 1902.
- || SHINN, NATALIE IDA (*Secondary Teaching*).....Pelham Manor, N. Y.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.

- § SHONINGER, SARAH (*Secondary Teaching*).....Louisville, Ky.  
State Normal School, Louisville, Ky., 1896.
- || SILBERSTEIN, NATHAN (*Secondary Teaching*).....(Mhtn) New York City
- § SILLIMAN, FLORENCE ELECTA (*Secondary Teaching*).....(Mhtn) New York City
- || SIMONS, MARION LODER (*Secondary Teaching*).....Port Chester, N. Y.
- SLAYMAN, IDA GERTRUDE (*Fine Arts*).....Shamokin, Pa.  
State Normal School, Millersville, Pa., 1899-1900.
- SMITH, HELEN (*Fine Arts*).....Yonkers, N. Y.  
School of Applied Design, New York City.
- § SNYDER, BENTON LOUIS (*Secondary Teaching*).....(Mhtn) New York City  
State Normal School, New Paltz, N. Y., 1894.
- || SOLOMON, WALTER LEE (*Secondary Teaching*).....(Mhtn) New York City
- SPOFAREL, MYRA B. (*Fine Arts*).....Manchester, Mich.  
Art Students' League, New York City.  
Cooper Union.
- § SPRINGER, ADA (*Secondary Teaching*).....East Las Vegas, N. M.
- || STAFF, FLORENCE MAY (*Secondary Teaching*).....Dunkirk, N. Y.
- STEIN, AMY E. (*Domestic Science*).....(Mhtn) New York City  
Smith College, A.B., 1904.
- § STETSON, ARTHUR DANA (*Secondary Teaching*).....(Bklyn) New York City  
State Normal School, Potsdam, N. Y., 1899.
- STETTLER, AUGUSTA<sup>†</sup> (*Fine Arts*).....Chicago, Ill.  
University of Chicago, Ph.B., 1904.
- § STIEBRITZ, ELSIE (*Physical Education*).....(Mhtn) New York City  
Barnard College, 1902-1904.
- STOCKTON, EDITH MAY (*Fine Arts*).....(Mhtn) New York City  
State Normal School, Greeley, Colo., 1898.  
Chase Art School, New York City, 1903.
- || STOCKTON, GUY CADWALLADER (*Secondary Teaching*).....Greeley, Colo.
- || STOCKTON, JAMES L. (*Secondary Teaching*).....Greeley, Colo.
- § STOUTENBERG, RUBY M. (*Elementary Teaching*).....Clifton Springs, N. Y.  
State Normal School, Cortland, N. Y., 1898.
- § SUMNER, ELIZABETH TOLMAN (*Domestic Science*).....Newton, Mass.  
Simmons College, Boston, Mass., 1902-1904.
- § TASCHE, JUNE (*Kindergarten*).....(Mhtn) New York City
- TAYLOR, AGNES LEONA (*Kindergarten*).....Salt Lake City, Utah  
Latter Day Saints College, Salt Lake City, 1904.
- TAYLOR, ELIMNA, LOIS (*Kindergarten*).....Salt Lake City, Utah  
University of Utah, Salt Lake City, Utah, 1897-1901.
- || TAYLOR, VIRGINIA (*Secondary Teaching*).....East Orange, N. J.
- || TOMS, ELIZABETH IVERSON (*Secondary Teaching*).....(Mhtn) New York City
- § TREAT, MARION (*Domestic Science*).....Chelsea, Mass.
- § TROWBRIDGE, JANETTE (*Physical Education*).....(Mhtn) New York City  
State Normal School, New Haven, Conn., 1884.  
Normal School of Gymnastics, New Haven, Conn., 1895.
- § TUTTLE, LEILA JUDSON (*Secondary Teaching*).....Hartland, N. C.  
State Normal College, Greensborough, N. C., 1900.
- VAN ALSTINE, CORNELIUS RALPH (*Elementary Teaching*).....Port Chester, N. Y.  
State Normal School, Oswego, N. Y., 1895.
- § VAN COTT, HARRY HORTON (*Secondary Teaching*).....Bainbridge, N. Y.  
State Normal School, Oneonta, N. Y., 1901.
- VAN COTT, LUCY M. (*Domestic Science*).....Salt Lake City, Utah  
University of Utah, Salt Lake City, Utah, 1888.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.



- § VANDERHOFF, MABEL (*Secondary Teaching*).....Seneca Falls, N. Y.  
State Normal School, Brockport, N. Y., 1902.
- \*\* VERY, EDITH.....(Mhtn) New York City
- § VON SALTZ, ELIZABETH CHRISTINA (*Elementary Teaching*)...(Mhtn) New York City  
Vassar College, 1902-1904.
- § VOXMAN, WILLIAM (*Secondary Teaching*).....(Mhtn) New York City
- § WALLING, AGNES (*Elementary Teaching*).....Ocean Grove, N. J.
- WARING, ANNA TALLMAN (*Domestic Art*).....(Mhtn) New York City  
Barnard College, A.B., 1904.
- § WAUGH, LOUISE (*Domestic Science*).....Johnstown, Pa.
- § WEEKS, FLORENCE LOUISE (*Elementary Teaching*).....Long Island City, N. Y.  
State Normal School, Jamaica, N. Y., 1900.
- || WELLS, MILDRED ADELE (*Secondary Teaching*).....East Orange, N. J.
- WEST, CLAUDE LORRAINE (*Elementary Teaching*).....Paterson, N. J.  
State Normal School, Bridgewater, Mass., 1896.
- § WHITE, EDITH MALCOLM (*Kindergarten*).....Hudson, N. Y
- § WILBUR, CLARA LOUISE (*Secondary Teaching*).....Fayetteville, N. Y  
University of Minnesota, 1895-1896.
- || WILLIAMS, HELEN ISABEL (*Secondary Teaching*).....(Br) New York City
- § WILLIAMS, JANE (*Kindergarten*).....Jellico, Tenn.  
University of Tennessee, 1901-1904.
- WILSON, JOHN REED (*Elementary Teaching*).....Paterson, N. J.  
State Normal School, Trenton, N. J., 1893.
- WILSON, WEALTHA ANN (*Domestic Science*).....Indianapolis, Ind.  
State Normal School, Indianapolis, Ind., 1881.
- § WINGFIELD, HENRIETTA BRISCOE (*Secondary Teaching*).....(Mhtn) New York City
- § WOOD, CAROLINE CONKLIN (*Domestic Art*).....Bound Brook, N. J.  
Art Students' League, New York City, 1892-1894.  
Art Guild, Brooklyn, N. Y., 1894-1895.
- § WOOD, FLORENCE A. (*Kindergarten*).....(Bklyn) New York City  
Pratt Institute, 1897.
- § WOODRUFF, MABELLE (*Elementary Teaching*).....Passaic, N. J.
- § WOODS, ADA G. (*Elementary Teaching*).....Augusta, Ga.  
Wesleyan College, Macon, Ga., A.B., 1891.
- WOODWARD, WILLIE FRANCES (*Fine Arts*).....Harrington, Wash.  
State Normal School, Jacksonville, Ala., 1888.
- § WOOSTER, BENJAMIN COOPER (*Manual Training*).....Ridgewood, N. J.  
Cooper Union, 1886-1887.  
New York University, 1903.
- || WORZEL, HOWARD HENRY (*Secondary Teaching*).....(Bklyn) New York City

## Collegiate Students

## SOPHOMORE CLASS

- AHERN, EDITH CORNELL.....(Br) New York City
- ASHCROFT, CARRIE VAN RENNELAER.....St. Louis, Mo.
- AVENT, JOHN.....(Mhtn) New York City
- BAGNASCO, JOSIE MARY.....Astoria, L. I.
- BALDWIN, EDWIN FRANKLIN.....(Mhtn) New York City
- BALLOU, BELLE.....Newton, Mass.
- BOWDEN, JESSIE ELLA.....Tangipahoa, La.
- BRATTON, ETHEL CHARLOTTE.....Williamstown, Mass.
- CASHEN, MARY.....Meriden, Conn.

§ Also a candidate for the B.S. degree.      \*\* Candidate for the B.S. degree only.  
|| Also a candidate for the A.B. degree.

CUTTING, FLORA LOUISE.....	(Bklyn) New York City
DAVIS, MARTHA GROSVENOR.....	Sewickley, Pa.
DE BOER, JOSEPHINE MARIE.....	Yonkers, N. Y.
DOLL, CAROLINE GERTRUDE.....	Buffalo, N. Y.
DONALDSON, IDA LEONORA.....	(Mhtn) New York City
EDWARDS, ANNIE DEANE.....	St. Paul, Minn.
ENGELBREKT, ANNA CECILIA.....	New Rochelle, N. Y.
GEBHART, HELEN MARIE.....	Wawwas, Wis.
HANNAN, WALTER SHERLOCK.....	(Br) New York City
HOEXTER, HERMANN HIRSCH.....	(Br) New York City
HOPKINS, EMMA BARKSDALE.....	Savannah, Ga.
JOHNSTON, WILLIAM HAZLETT.....	(Bklyn) New York City
JONES, SIDNEY SMITH.....	Denver, Colo.
KAGAN, FANNIE.....	Lakeville, Mass.
KLEIN, JESSIE CLARA.....	(Mhtn) New York City
KREINER, LILLIAN MAY.....	Newark, N. J.
LIVERMON, MATTIE.....	Roxobel, N. C.
McMAHON, ANNA.....	(Mhtn) New York City
MEAD, ELLA.....	(Bklyn) New York City
MELLEN, ANNA VICTORINE.....	Canton, Ohio
MILLER, WILLIAM DATES.....	Bayport, L. I.
MOORE, HENRY NELSON.....	Pittsburgh, Pa.
PENDLETON, VENITA.....	Bryn Athyn, Pa.
PERCY, SARAH WOOD.....	(Mhtn) New York City
POWELL, LUCY LEE.....	Staunton, Va.
SHONINGER, YETTA SILAS.....	Louisville, Ky.
SIMMONS, MARY PILKINGTON.....	Yonkers, N. Y.
SINSHEIMER, ELEANOR.....	(Mhtn) New York City
SMITH, WILLIAM PALMER.....	Edinboro, Pa.
STRICKLAND, ANNA F.....	(Mhtn) New York City
SULLIVAN, JULIE ELLSBEE.....	(Mhtn) New York City
THOMAS, ISABEL CARR.....	Oxford, Ohio
THRASHER FLORA LOIS.....	Dayton, N. Y.
WEEKS, ESTELLA F.....	(Q) New York City
WILCOX, WINIFRED.....	Yonkers, N. Y.
WILLSON, ALBERT CLARK.....	Noroton, Conn.
WILSON, WILLIAM HENRY.....	Paterson, N. J.
WOOLSTON, FLORENCE.....	(Mhtn) New York City

## FRESHMAN CLASS

ANDERSON, CARLOTTA ADELE.....	(Mhtn) New York City
BAILEY, MARY ADA.....	(Mhtn) New York City
COLLIGAN, EUGENE ALOYSIUS.....	(Bklyn) New York City
COOPER, HELEN E.....	Yonkers, N. Y.
CURTIS, MARY WROE.....	Ogdensburg, N. Y.
DICKERSON, HARRIET MAY.....	Ridgewood, N. J.
DOLAN, MARY IRENE.....	Woodside, N. Y.
DOUGLAS, CLARA MARTIN.....	Whitehall, N. Y.
GOETT, JOHN.....	(Mhtn) New York City
GOULD, MILDRED.....	Milledgeville, Ga.
GRUNDY, ELIZABETH.....	Paterson, N. J.
JACOBS, CHARLES LEWIS.....	(Mhtn) New York City
JANSEN, WILLIAM.....	(Mhtn) New York City
KARNER, MARY LOUISE.....	Plainfield, N. J.
KEELER, ELIZABETH G.....	Ellenville, N. Y.
KERR, HELEN POMEROY.....	Yonkers, N. Y.
KLAUBER, BELLE.....	(Mhtn) New York City

KLOCEK, MARIE JOSEPHINE.....	Winfield Junction, L. I.
LIN, PASHENG.....	Shanghai, China
LISLE, HELEN LOUISE.....	West Newton, Mass.
LUCE, VITA CLARA.....	(Mhnt) New York City
MIDDLETON, FLORENCE.....	(Mhnt) New York City
MOORE, GEORGE DOLSON.....	Middletown, N. Y.
NIELSEN, KJERSTEN.....	Poughkeepsie, N. Y.
ROGERS, CHARLOTTE AMY.....	Waverly, N. Y.
ROTH, ANNA.....	Dolgerville, N. Y.
RUSSELL, GRACE ELFREDA.....	(Mhnt) New York City
SEWARD, FRANCES ADELINE.....	Florida, N. Y.
SIMPSON, ANNIE BARCHARD.....	(Mhnt) New York City
WOLFE, LENA.....	(Mhnt) New York City

## SPECIAL STUDENTS

ARMAND, LOUIS JULES.....	(Mhnt) New York City Art Students' League, N. Y., 1889-1891. Ecole des Beaux Arts, Paris, 1891-1892. Academy of Design, N. Y., 1901-1902.
ATWELL, S. VIRGINIA (MRS.).....	Fairfax, Va. Pratt Institute, 1898. Oread Institute, 1904.
BARNES, CARRIE VIVIAN.....	Denver, Colo. Tuskegee Normal School, 1903.
DENNIS, MAE FLORENCE.....	Kalamazoo, Mich. School of Industrial Art, Philadelphia, 1898-1899.
DERBISHIRE, CATHERINE EUGENIA.....	Sherbrooke, P. Q., Canada
DODGE, ARTHUR DOUGLAS.....	(Mhnt) New York City Yale University, A.B., 1903.
HUGHES, LIZBETH BELL.....	Moulmein, Burmah, India Acadia University, Wolfville, N. S., 1894-1895.
LAMB, MARY ADALINE.....	Denver, Colo.
McMURRY, CHARLOTTE LEWIS (MRS.).....	Hartford, Conn. Chauncy Hall Kindergarten, Boston, Mass.
MORRISON, GRACE LAWRENCE.....	Maryville, Mo.
POWE, CHARLOTTE H.....	Cheraw, S. C.
SMITH, ANNIE H.....	Port Deposit, Md.
VON VOIGT, KATRINA.....	Worcester, Mass.
WILKINS, EVA.....	Bradford, Pa. Normal School, Fredonia, N. Y., 1873.

*Course in Hospital Economics*

AMBROSE, EDITH MARGARET.....	Shubenacadie, N. S. Presbyterian Hospital, New York City, 1894.
HAMMOND, BERTHA MARIE.....	Castile, N. Y.
JAMIESON, MARGARET D.....	Griffith, Ind. Michael Reise Hospital, Chicago, Ill., 1891-1893.
MACCONACHIE, JANET TULLOCH.....	Glenlivet, Scotland St. Joseph's Hospital Training School, Chicago, Ill., 1895.
PARSONS, SARA ELIZABETH.....	Oxford, Mass. Training School, Massachusetts General Hospital, Boston, Mass., 1893. Training School, McLean Hospital, Waverley, Mass., 1895.
TRACEY, SUSAN EDITH.....	Cambridge, Mass. Massachusetts Homeopathic Hospital Training School, Boston, Mass., 1898.
VAN HORNE, LUCY G.....	Jerseyville, Ill. Training School for Nurses, Waltham, Mass., 1893-1895.

WATSON, GRACE GENEVE.....	St. Albans, Vt. School for Nurses, Chicago, Ill., 1892.
WRIGHT, LUELLA NOEL (MRS).....	Flora, Ill. St. Joseph's Hospital Training School, Chicago, Ill., 1895.

## SUMMARY

*Candidates for Degrees and Diplomas*

I. Graduate Students:	
Candidates for Doctor's Diploma and Degree.....	25
"    "    Master's Diploma and Degree.....	76
"    "    Higher Diploma.....	—
	101
II. Professional Students:	
Candidates for Bachelor's Diploma:	
For Teaching in Secondary Schools.....	190
"    "    "    Elementary Schools.....	57
"    "    "    Kindergartens.....	28
"    "    "    Domestic Art.....	14
"    "    "    Domestic Science.....	46
"    "    "    Fine Arts.....	43
"    "    "    Manual Training.....	19
"    "    "    Music.....	14
"    "    "    Physical Education.....	10
Candidates for the Bachelor of Science Degree only.....	15
	436
III. Students in Collegiate Course:	
Sophomore Year.....	48
Freshman Year.....	30
	78
IV. Students not candidates for a Degree or Diploma:	
Special Students.....	14
Special Students in Hospital Economics.....	9
Auditors.....	13
	36
V. Students from other Faculties of the University:	
From the Faculty of Philosophy.....	44
"    "    "    Political Science.....	10
"    "    "    Pure Science.....	13
"    "    "    Applied Science.....	2
"    Columbia College.....	32
"    Barnard College.....	100
	201
	852
Less duplicate counts, candidates for diplomas:	
Barnard College, 94; Columbia College, 27.....	121
Total.....	731

## PUPILS IN TEACHERS COLLEGE SCHOOLS

*Horace Mann School*

High School.....	436
Grammar School.....	217
Primary School.....	229
Kindergarten.....	35
	917

*Speyer School*

Primary School.....	133
Kindergarten.....	35
	168

Total Pupils in Schools..... 1085

Extension Students (Teachers College registration only)..... 756



## COLLEGE OF PHARMACY

### OFFICERS AND TRUSTEES

NICHOLAS MURRAY BUTLER.....	<i>President</i>
EWEN MCINTYRE.....	<i>Honorary President</i>
CHARLES F. CHANDLER.....	<i>Vice-President</i>
WILLIAM JAY SCHIEFFELIN.....	<i>Vice-President</i>
HERBERT D. ROBBINS.....	<i>Vice-President</i>

*Term expires 1905*

OTTO BOEDDIKER  
M. J. BREITENBACH  
CHARLES S. ERB  
SAMUEL W. FAIRCHILD  
HENRY IMHOF

*Term expires 1906*

F. W. CARPENTER  
THOMAS P. COOK  
ARTHUR H. ELLIOTT  
FELIX HIRSEMAN  
CARL SCHUR

*Term expires 1907*

OTTO P. AMEND  
OSCAR GOLDMANN  
ADOLPH HENNING  
GILBERT P. KNAPP  
CHARLES H. WHITE

CLARENCE O. BIGELOW.....	<i>Treasurer</i>
THOMAS F. MAIN.....	<i>Secretary</i>
O. J. GRIFFIN.....	<i>Assistant Secretary</i>

### OFFICERS OF INSTRUCTION

#### Officers of the Faculty

HENRY H. RUSBY, M.D.....	<i>Dean</i>
GEORGE A. FERGUSON, Ph.B.....	<i>Secretary</i>

#### The Faculty

CHARLES F. CHANDLER, A.M., Ph.D., M.D., LL.D., D.Sc.,	<i>Professor of</i>
	<i>Organic Chemistry</i>
HENRY H. RUSBY, M.D.....	<i>Professor of Botany and Materia Medica</i>
VIRGIL COBLENTZ, A.M., Phar.M., Ph.D., F.C.S.,	<i>Professor of Physics</i>
	<i>and Chemistry</i>

GEORGE A. FERGUSON, Ph.B.,	<i>Professor of Analytical Chemistry and Mathematics</i>
SMITH ELY JELLIFFE, A.M., M.D., Ph.D.,	<i>Professor of Pharmacognosy and Technical Microscopy</i>
GEORGE C. DIEKMAN, Ph.G., M.D. . . . .	<i>Professor of Pharmacy</i>
JOHN OEHLER, Ph.G. . . . .	<i>Adjunct Professor of Chemistry</i>
ARTHUR H. ELLIOTT, Ph.D., F.C.S.,	<i>Professor Emeritus of Chemistry and Physics</i>
WILLIAM J. GIES, Ph.D.,	<i>Adjunct Professor of Physiological Chemistry</i>
CARLTON C. CURTIS, Ph.D. . . . .	<i>Tutor in Botany</i>

#### Other Instructors

HARRY B. FERGUSON, Ph.D. . . . .	<i>Instructor in Botany and Materia Medica</i>
RAYMOND J. NESTELL. . . . .	<i>Instructor in Analytical Chemistry</i>
ANTON VORISEK, Ph.D. . . . .	<i>Instructor in Pharmacy</i>
WILLIAM MANSFIELD, Ph.G. . . . .	<i>Instructor in Physics</i>

#### Other Officers of Administration

JAMES H. CANFIELD, LL.D., Litt.D. . . . .	<i>Librarian of the University</i>
RUDOLF TOMBO, Jr., Ph.D. . . . .	<i>Registrar of the University</i>
FREDERICK A. GOETZE. . . . .	<i>Superintendent of Buildings and Grounds</i>
VIRGIL COBLENTZ, Ph.D. . . . .	<i>Librarian to the College of Pharmacy</i>
SARA KER. . . . .	<i>Custodian of the Library of the College of Pharmacy</i>

#### GENERAL STATEMENT

The College of Pharmacy of the City of New York, founded in 1829, chartered in 1831, and recognized in 1879 by the Regents as part of the University of the State of New York, became a member of the educational system of Columbia University on July 1, 1904. The President of the University is *ex-officio* President of the College of Pharmacy, and the College is represented in the University Council by its Dean, who is appointed by the Trustees of the College of Pharmacy on the nomination of the President. The College, however, maintains its separate corporate organization, and its Trustees continue to provide for its financial support.

The College of Pharmacy thus becomes the professional school of Columbia University for pharmacists and pharmaceutical chemists, and, as well, a valuable addition to the University's resources for teaching and research in botany and toxicology.

The following courses of study are offered:

1. A two-year course consisting of a junior and senior year leading to the degree of Graduate in Pharmacy and qualifying a graduate to meet any examination for the position of licensed pharmacist. The work undertaken is as follows: Junior year—physics, general and pharmaceutical chemistry, analytical chemistry, mathematics of

pharmacy, practical pharmacy, applied pharmacy, botany, pharmacognosy, and physiology. Senior year—organic chemistry, inorganic and organic pharmaceutical chemistry, analytical chemistry, practical pharmacy, materia medica, toxicology, commercial pharmacognosy, histological pharmacognosy.

2. A third or post-graduate course of one year, open to graduates of this or other schools of equal grade, leading to the degree of Doctor of Pharmacy. This course fits graduates for advanced positions as chemists, expert analysts and microscopists, and for making urinary analyses, bacteriological examinations, and performing other work of the kind. It consists of practical courses in plant analyses, technical microscopy and bacteriology, quantitative analysis and organic analysis, and lecture courses in the theory and practice of inorganic quantitative analysis, commercial organic analysis and toxicology, and physiological chemistry.

3. A number of special courses of instruction have also been established, partly for the benefit of those regular students who desire, for any reason, to specialize in certain lines of work, and partly to provide instruction in individual departments for those who do not desire to take the full course. Certificates, but not diplomas, will be awarded to the last mentioned special students. These special courses of instruction are in pharmacognosy, chemical analysis, advanced inorganic and organic chemistry, and practical pharmacy.

The College is situated at 115 West 68th Street, near Columbus Avenue, in a new and especially well-equipped building erected in 1894.

No changes in curriculum, degrees, or entrance or graduation requirements will be made until after the close of the year 1904, when, according to law, twelve Regents' counts or an equivalent will be required as a preliminary to entrance. Important changes in other respects will be announced to take effect with the session of 1905-06 and in subsequent years, and will affect students matriculating in September, 1905, or thereafter. Full particulars regarding the proposed changes will be made public in the announcement of the College of Pharmacy for 1905-06.

Students who are to be examined for admission will be examined at the Columbia University entrance examinations, which are held in June and September of each year. In June, 1905, the entrance examinations will be those of the College Entrance Examination Board, of which Columbia University is a member. The June examinations are held simultaneously at Columbia University and at many places throughout the United States, Canada, and Europe. For detailed information see p. 191.

In September, 1905, the entrance examinations will be conducted by the Columbia University Committee on Entrance Examinations and will be held at the University only. The College Entrance Examination Board at present holds no examinations in September.

### Method of Instruction

During the junior and senior years the instruction occupies three days of the week, the alternate days being free for that practical experience in the pharmacy which is required by Boards of Pharmacy before they will grant their licenses. While this arrangement enables students to meet the Board requirements, it also provides for salaries, which pay the expenses of a majority of our students.

Many students, adopting the advice of the Faculty, prefer to devote the entire time of the second year to college work. For those so desiring, additional instruction is provided.

For the purpose of more fully elucidating the subjects presented in the lectures and laboratories and of familiarizing the students therewith, as well as for testing their progress from week to week and of ascertaining whether they are giving suitable attention to their work, a complete series of recitations or quizzes, by a corps of fully qualified instructors, is provided. The succession of topics and the manner of their treatment at these recitations follow closely the courses of instruction given by the professors in the respective departments. In order that all the members of the class may be drilled as often and as thoroughly as possible, the classes are divided into small sections, the instruction of each section being identical but conducted at different hours.



## REGISTER OF STUDENTS, 1904-05

### College of Pharmacy

#### GRADUATE STUDENTS

ARMSTRONG, JOSEPH FRANCIS.....	(Mhtn) New York City
BRANDENBERG, WALTER J. W.....	(Bklyn) New York City
COHN, ALFRED ISAAC.....	(Mhtn) New York City
HEUSER, JOHN B.....	(Bklyn) New York City
HOLTON, HARRY HODGDON.....	Boothbay Harbor, Me.
HOLMES, ROY M.....	Lodi, N. J.
KOCH, GEORGE WILLIAM.....	Woodhaven, N. Y.
KUPERSMITH, MAX D.....	(Mhtn) New York City
LENZ, HERBERT J.....	(R) New York City
LESLIE, FREDERICK ARTHUR.....	(Mhtn) New York City
MANSFIELD, WILLIAM.....	Saugerties, N. Y.
MORHOUS, OAKLEY ARTHUR.....	(Bklyn) New York City
ROSENSTEIN, ELI.....	(Bklyn) New York City
SCHUCHMANN, EDWARD FRANK.....	(Mhtn) New York City
TAUSSIG, HUGO.....	(Mhtn) New York City
TURNER, DUDLEY BREED.....	Towanda, Pa.
ZIMMERMANN, JACOB B.....	Weehawken Heights N. J.
Graduate Students.....	17

#### SENIORS—CLASS OF 1905

ABELING, WILLIAM HENRY.....	St. Louis, Mo.
ABRAMSON, JOSEPH.....	(Mhtn) New York City
AFFEL, HENRY H.....	(Bklyn) New York City
AHRENS, JOHN GEORGE.....	Yonkers, N. Y.
AIGUIER, JAMES EDWARD.....	(Q) New York City
ALEXANDER, NATHANIEL.....	Utica, N. Y.
ALVAREZ Y FIGUEROA, MIGUEL.....	Havana, Cuba
ANDERSON, CHARLES LUDWIG.....	(Mhtn) New York City
ANSELMO, PETER CHARLES.....	(Mhtn) New York City
BAGOE, GEORGE THEODORE.....	(Mhtn) New York City
BALCOM, HENRY ELLIS.....	Norwalk, Conn.
BALLOU, CLARENCE LE ROY.....	New Haven, Conn.
BALSON, HENRY.....	Newark, N. J.
BAXTER, C. WELLINGTON.....	Newburgh, N. Y.
BECK, ALFRED J.....	Ocala, Fla.
BERLIN, SAMUEL.....	(Mhtn) New York City
BIGELOW, ARTHUR SEWALL.....	Three Bridges, N. J.
BLUMENBERG, JOHN HERMAN.....	Mt. Vernon, N. Y.
BRACCO, JOSEPH A.....	(Mhtn) New York City
BRACKER, ALFRED GEORGE.....	(Mhtn) New York City
BRADLEY, HARRY ABNER.....	Monticello, N. Y.
BRANIGAN, THOMAS J.....	(Mhtn) New York City
BRENNAN, JOHN GEORGE.....	(Mhtn) New York City
BREWER, P. ALTON.....	Hoboken, N. J.

BRODERICK, EMMETT PATRICK.....	Rome, N. Y.
BROEMMEL, GEORGE MARTIN.....	San Francisco, Cal.
BURT, EDWARD HALE.....	Putnam, Conn.
CALDERARA, THEODORE.....	Mt. Vernon, N. Y.
CLEAVER, WILLIAM ADOLPH.....	(Mhtn) New York City
COHEN, JOSEPH.....	(Mhtn) New York City
COLES, JAMES GARFIELD.....	Jersey City, N. J.
COLLINS, JOSEPH ADRIAN.....	(Mhtn) New York City
CONTI, JOSEPH ANTHONY.....	(Mhtn) New York City
CORNELL, CLAUDE NEWTON.....	Washingtonville, N. Y.
CROWE, JOHN HENRY.....	Richfield Springs, N. Y.
DANIELS, BURT L.....	Waddington, N. Y.
DEAN, JAMES LEWIS.....	Mt. Meigs, Ala.
DEAN, WALTER S.....	Glens Falls, N. Y.
DONALDSON, REUBEN M.....	Malone, N. Y.
DWYER, DANIEL S. B.....	Saranac Lake, N. Y.
EATON, CHARLES GAYLORD.....	Kent, Conn.
EGGLESTON, CLARENCE HAROLD.....	Sharon, Conn.
ELLIS, CHARLES HENRY.....	Port Chester, N. Y.
ERNST, GUSTAVE JOHN.....	Bayonne, N. J.
FINKLE, LEONARD J.....	(Br) New York City
GALE, WILLIAM, Jr.....	Westfield, N. J.
GALVAN, MANUEL D.....	Ciudad Nueva, San Domingo
GANELESS, JACOB S.....	(Mhtn) New York City
GARTNER, GUSTAVE JOHN.....	(Mhtn) New York City
GHERSIN, MORRIS.....	(Mhtn) New York City
GLADWIN, HENRY H.....	(Mhtn) New York City
GOLDBERG, ABRAHAM I.....	(Mhtn) New York City
GOLDBERG, PAUL.....	Jaffe, Palestine, Asia
GOLDBLATT, LILLIAN (Miss).....	(Mhtn) New York City
GOLDFARB, MEYER.....	(Mhtn) New York City
GOLDLUST, OSCAR.....	(Mhtn) New York City
GOLDSTEIN, SAMUEL A.....	(Mhtn) New York City
GREGG, JAMES.....	(Mhtn) New York City
GUIDA, VINCENT M.....	(Mhtn) New York City
GUNDEL, JOHN M.....	Union Hill, N. J.
HAMAN, CHARLES J.....	(Mhtn) New York City
HAMLER, EDWARD S.....	East Orange, N. J.
HAMMOND, JAMES ARTHUR.....	Cortland, N. Y.
HARRIGAN, EDWARD BURNS.....	(Mhtn) New York City
HENNING, HENRY M.....	(Mhtn) New York City
HOFFMAN, JOHN WESLY.....	Margaretville, N. Y.
HOLLEY, WILLIAM ARTHUR.....	Greenboro, N. C.
HORN, NUMAN LUIS.....	Newark, N. J.
HULL, WILLARD JAMES.....	Binghamton, N. Y.
JANNELL, JOHN A.....	Epping, N. H.
JEBE, WALTER OTTO.....	Davenport, Ia.
JORGENSEN, FREDERICK ERNEST.....	(Mhtn) New York City
KAHN, ARTHUR ABRAHAM.....	Long Branch, N. J.
KAHN, MOEREL C.....	Long Branch, N. J.
KAPLAN, MARTIN.....	(Mhtn) New York City
KINZEL, AUGUSTUS L.....	(R) New York City
KLEPPER, LASER.....	(Mhtn) New York City
KRAMM, SAMUEL.....	Philadelphia, Pa.
KRAUSE, OTTO.....	(Mhtn) New York City
KUTSCHER, SAMUEL.....	(R) New York City
LANDAU, SAMUEL.....	(Mhtn) New York City
LANG, ANDREW.....	East Orange, N. J.

LEVY, BENJAMIN NICHOLAS.....	(Mhtn) New York City
LINS, WILLIAM T.....	(Mhtn) New York City
LIOTTA, MATTHEW ALEXIS.....	(Mhtn) New York City
LOEWENSTEIN, MAURICE S.....	(Mhtn) New York City
LUISI, FRANK ANTONIO JOSEPH.....	(Mhtn) New York City
LUND, ARNOLD.....	Perth Amboy, N. J.
LUTHIN, HUGO ALEXANDER.....	(Mhtn) New York City
LYNCH, WILLIAM ALOYSIUS.....	Hastings, N. Y.
MAGUIRE, STEPHEN ANTHONY.....	(Mhtn) New York City
MAGUIRE, WILLIAM F.....	Mohawk, N. Y.
MARCULESCU, LEONIE.....	(Mhtn) New York City
MARSHAK, MARTIN I.....	Bayonne, N. J.
MARTIN, JOHN JOSEPH.....	Hazeltown, Pa.
MAURO, BENJAMIN.....	(Bklyn) New York City
MESSERSCHMIDT, FREDERICK, JR.....	(Bklyn) New York City
MEYERS, MOE, JR.....	(Mhtn) New York City
MEYERSON, MAX.....	(Mhtn) New York City
MILLER, HENRY SPANGLER.....	Kinderhook, N. Y.
MONAHAN, JOHN A.....	(Mhtn) New York City
MUNRO, ALBERT GALLATIN.....	Highland Falls, N. Y.
NICOLAI, ERWIN W.....	(Mhtn) New York City
NIELSEN, PAUL EDWARD.....	(Mhtn) New York City
NIEMEYER, HERBERT FLOYD.....	(Q) New York City
NORTON, WILLIAM GILBERT.....	(Mhtn) New York City
O'FARRELL, LEO PETER.....	Wappingers Falls, N. Y.
OGUS, SAMUEL.....	(Mhtn) New York City
OPPER, GEORGE H.....	(Bklyn) New York City
PETRAGLIA, CHARLES ANTHONY.....	(Mhtn) New York City
PHILO, A. ARTHUR.....	Perth Amboy, N. J.
POETZ, CARL W.....	(Mhtn) New York City
PRICE, GLENN WILLIAM.....	(Mhtn) New York City
RECORD, LLOYD WILLEY.....	North Adams, Mass.
REES, HENRY J. (Summer Course).....	Union Hill, N. J.
ROBERTIELLO, ALFRED B.....	(Mhtn) New York City
ROCHELEAU, GUY CLARK.....	St. Johnsbury, Vt.
ROSENBLUM, ISIDOR.....	(Mhtn) New York City
RUFFOLO, JOSEPH HOWARD.....	(Mhtn) New York City
RUPPEL, ANTHONY FELIX.....	(Mhtn) New York City
RYAN, JOHN FRANCIS.....	(Q) New York City
ST. JOHN, WILLIAM H.....	Stratford, Conn.
SACKETT, CHARLES FREDERICK.....	(Mhtn) New York City
SCHAPIRA, JOHN M.....	(Mhtn) New York City
SCHER, LOUIS.....	(Mhtn) New York City
SCHLESINGER, HARRY.....	(Mhtn) New York City
SCHROEDER, HARRY JOHN.....	(Mhtn) New York City
SEAMAN, HADDEN ANTHONY.....	Perth Amboy, N. J.
SEID, A. JULIUS.....	(Mhtn) New York City
SIEGEL, NATHAN.....	(Mhtn) New York City
SIEVERT, HENRY WILLIAM.....	Davenport, Ia.
SILVER, WILLIAM F.....	(Mhtn) New York City
SITTERLEY, WILLIAM WILLARD.....	(Bklyn) New York City
SLATTERY, WILLIAM J.....	Oswego, N. Y.
SMITH, SAMUEL.....	(Mhtn) New York City
SPERO, ALPHONSUS PATRICK.....	(Mhtn) New York City
SPINDLER, HENRY.....	(Mhtn) New York City
STECKLER, SIMON PRICE.....	(Mhtn) New York City
STOVALL, ERNEST F.....	Vienna, Fla.
TABORELLI, ERNEST THOMAS.....	West Hoboken, N. J.
THOMAS, JOHN EDWARD.....	Utica, N. Y.

URSTADT, HENRY EDWARD.....	(Mhtn) New York City
DE VICTORIA, BERTHA LOPEZ.....	(Mhtn) New York City
VOELKER, JOHN J. A., Jr.....	Lindenhurst, N. Y.
VOGLER, EDWARD.....	Canton, O.
VOREL, FRANCIS STANLEY.....	(Mhtn) New York City
WEAVER, THOMAS ASTLEY.....	Plainfield, N. J.
VON WEDELL, HASSOW O.....	Dobbs Ferry, N. Y.
WEISS, SAMUEL.....	(Mhtn) New York City
WILKES, ROSE (Mrs.).....	(Mhtn) New York City
WILLIAMS, JOHN MILLER.....	Perth Amboy, N. J.
WILSON, ANDREW L.....	Yorkville, N. Y.
WURTHMANN, JOHN WILLIAM.....	(Mhtn) New York City
ZRUBEK, JOSEPH, Jr.....	(Q) New York City
Seniors—Class of 1905.....	154

## JUNIORS—CLASS OF 1906

ADAIR, PHILIP.....	(Mhtn) New York City
ADLER, CHARLES.....	(Mhtn) New York City
ALBACH, GEORGE AUGUST.....	West Hoboken, N. J.
ALEXION, GEORGE.....	(Mhtn) New York City
ALLISON, SAMUEL.....	(Br) New York City
ARONOVIC, HARRY.....	(Mhtn) New York City
ARONSTAMM, JULIUS CHARLES.....	(Mhtn) New York City
ASHTON, WILLIAM D.....	Pequa, Ohio
AYRES, CHARLES WENDELL.....	Bennington, Vt.
BAKKER, NICHOLAS.....	Haledon, N. J.
BALSAMO, JOSEPH.....	(Mhtn) New York City
BANGERT, GEORGE SCHUYLER.....	East Orange, N. J.
BASSON, NOAH BERNARD.....	Jersey City, N. J.
BELLOCCHIO, JOSEPH.....	(Mhtn) New York City
BENHAM, ROBERT JAMES.....	Waterbury, Conn.
BENINCASA, VINCENZO.....	(Mhtn) New York City
BIMSTEIN, MORRIS.....	(Mhtn) New York City
BINGHAM, PIERRE CLARK.....	(Br) New York City
BISCHOFF, HARRY ERNEST.....	Weehawken Heights, N. J.
BLOCK, ALEXANDER.....	(Mhtn) New York City
BOCK, CHARLES WELLINGTON.....	Utica, N. Y.
BOEDER, LEO.....	(Br) New York City
BONNYMAN, ALEXANDER.....	Warwick, N. Y.
BRADTKE, FRANK GEORGE.....	(Mhtn) New York City
BRAULT, JAMES CHESTER.....	(Bklyn) New York City
BRONSON, IRWIN PERIN, Jr.....	New Haven, Conn.
BRONSTEIN, SAMUEL.....	(Mhtn) New York City
BROOKS, ALEXANDER.....	(Mhtn) New York City
BROWN, ANDREW A.....	Scranton, Pa.
BROWN, ARTHUR CREUSE.....	(Mhtn) New York City
BROWN, CHARLES KIMBALL.....	Deposit, N. Y.
BRUCE, WALTER ARCHIBALD.....	Shelburne, Nova Scotia
BRUNDAGE, HARRY.....	(Mhtn) New York City
BUFFA, DAMIANO.....	(Mhtn) New York City
CALCAGNO, VITO.....	(Mhtn) New York City
CHAYES, BERNARD.....	Bayonne, N. J.
CIANI, ULDERICK.....	(Mhtn) New York City
CLAPPER, CHARLES M.....	(Q) New York City
CRESCENZO, CAGGIANO.....	(Mhtn) New York City
CROLLY, THEODORE A.....	Mt. Vernon, N. Y.
CUPO, LUIGI.....	(Mhtn) New York City
CUTTING, CLARENCE EUGENE.....	(R) New York City



DAHLKE, CHARLES AUGUSTUS.....	Belvidere, N. J.
DAUB, MAX.....	(Mhtn) New York City
DAVIDSON, HARRY.....	(Mhtn) New York City
DE BELLIS, WILLIAM.....	(Mhtn) New York City
DE LAMATER, WILLIAM GEORGE.....	(Br) New York City
DE LA VERGNE, EVERET C.....	(Q) New York City
DE MARSICO, DOMINICK.....	(Mhtn) New York City
DOLD, ARTHUR FERDINAND.....	Port Chester, N. Y.
DOOLITTLE, HENRY ISAAC.....	(Mhtn) New York City
DRISCALL, D. EUGENE.....	Binghamton, N. Y.
DRISCALL, WILLIAM C.....	Bridgeport, Conn.
EDEN, GEORGE A.....	(Bklyn) New York City
EHRENBERG, SIEGFRIED.....	(Mhtn) New York City
ELWYN, HUGO.....	(Mhtn) New York City
EOLIS, ADOLPH.....	(Mhtn) New York City
EUSNER, FRANK.....	(Br) New York City
EVERSON, FRANCIS LESLIE.....	Utica, N. Y.
FAIELLA, HARRY E.....	(Br) New York City
FARBER, WALTER.....	Newark, N. J.
FEELY, MARTIN JOSEPH.....	Whitehall, N. Y.
FEINSTEIN MORRIS.....	(Mhtn) New York City
FELDMAN, ALBERT.....	(Mhtn) New York City
FESSLER, RUDOLPH.....	(Mhtn) New York City
FINK, WILLIAM C., JR.....	Hudson Heights, N. J.
FISH, RAYMOND W.....	Mount Kisco, N. Y.
FLANZER, ISIDORE.....	(Mhtn) New York City
FLINT, CHARLES W.....	St. Johnsbury, Vt.
FOX, EDWARD ALOYSIUS.....	(Mhtn) New York City
FOY, GILBERT E.....	(Mhtn) New York City
FRANKEL, HYMAN J.....	(Mhtn) New York City
FRANKLIN, ALEXANDER.....	Jersey City, N. J.
FREEDA, ABRAHAM.....	(Mhtn) New York City
FREER, GEORGE L.....	(Mhtn) New York City
FRIEDMAN, MORRIS.....	(Mhtn) New York City
FRINDEL, MAX.....	(Bklyn) New York City
GARBOV, BENJAMIN.....	(Mhtn) New York City
GAUL, WILLIAM HENRY.....	Yonkers, N. Y.
GHIRARDI, OREST S.....	Montclair, N. J.
GINSBERG, TOBIAS.....	(Bklyn) New York City
GOLDING ARTHUR GOUVENEUR.....	Yonkers, N. Y.
GOLDSCHMIDT, JACOB.....	(Mhtn) New York City
GOODWIN, JOSEPH MANNING.....	Norwalk, Conn.
GORING, HAROLD VAN WYCK.....	Wappingers Falls, N. Y.
GOULKO, ISRAEL.....	(Mhtn) New York City
GRASSI, HUMBER A.....	(Mhtn) New York City
GRIMM, FRANCIS JOSEPH.....	(Br) New York City
GROGAN, EDWARD A.....	Rome, N. Y.
GUAGLIARDO, FRANK.....	(Mhtn) New York City
GUARNIER, ACHILLES AENEAS.....	(Mhtn) New York City
GUEST, HENRY BRUCE.....	Yarmouth, Nova Scotia
GUILD, MAX.....	(Mhtn) New York City
HAHN, ROBERT.....	(Mhtn) New York City
HAIMBACH, LOUIS PHILIP.....	West Hoboken, N. J.
HAMMOND, LOUIE EARLE.....	West Haven, Conn.
HANALES, MORRIS L.....	(Mhtn) New York City
HARRISON, PAUL.....	(Mhtn) New York City
HARTNETT, EDWARD HAZARD.....	Jersey City, N. J.
HASTINGS, EARL GRANT.....	North Adams, Mass.
HEDDESHEIMER, WILLIAM GEORGE.....	(Mhtn) New York City

HEIFLER, ISIDORE.....	(Mhtn) New York City
HENRY, ROBERT K.....	(Br) New York City
HEUSS, CHESTER A.....	Ossining, N. Y.
HICKLING, FRANK HODSON.....	Lisbon, Ohio
HODES, BERNARD M.....	(Mhtn) New York City
HOLZHAUER, CHARLES WILLIAM.....	Newark, N. J.
HOPKINS, HENRY TRUEX.....	Keyport, N. J.
HOWARDSEN, TOBIAS.....	(Bklyn) New York City
HUNT, SIDNEY KIRBY.....	Middletown, N. Y.
HUTCHINS, CLAUDE.....	(Mhtn) New York City
IRMISCH, LOUIS WILLIAM.....	Lindenhurst, N. Y.
JOHNSON, CORRAL WHITE M., Jr.....	Plattsburg, N. Y.
JONES, GRIER O.....	(Mhtn) New York City
JOSEPH, ISIDORE.....	(Mhtn) New York City
JUDSON, ROBERT ORR.....	Woodbury, Conn.
JÜRGENSEN, KARL H.....	(Q) New York City
JUSTER, HERMANN.....	(Br) New York City
KAISER, HERMAN WILLIAM.....	Fort Lee, N. J.
KARP, SAMUEL.....	Scranton, Pa.
KASTNER, EDGAR PETER.....	Newark, N. J.
KEATING, WILLIAM FRANCIS.....	(Mhtn) New York City
KENNEDY, WALTER S.....	Woodbridge, Conn.
KERRIGAN VINCENT JOSEPH.....	(Br) New York City
KLEIN, LOUIS.....	(Mhtn) New York City
KLEIN, WILLIAM.....	(Bklyn) New York City
KOBRIK, GEORGE.....	(Mhtn) New York City
KOCH, WILLIAM.....	Collinsville, Conn.
KOPEL, MAURICE A.....	(Mhtn) New York City
KRAUSE, GEORGE WILLIAM.....	(Mhtn) New York City
KREPALA, CHARLES.....	(Q) New York City
LAHEY, ARTHUR LAWRENCE.....	(Q) New York City
LANCER, JOHN J.....	(Br) New York City
LANDI, ANTHONY.....	(Mhtn) New York City
LEHMKUHL, HENRY WILLIAM.....	Yonkers, N. Y.
LEIBSON, DIANA (Miss).....	(Mhtn) New York City
LEOPOLD, CHARLES.....	(Br) New York City
LEVINSOHN, ALEXANDER.....	(Mhtn) New York City
LEVY, HARRY DAVID.....	(Mhtn) New York City
LICHTMAN, SAMUEL.....	(Mhtn) New York City
LIPSKY, HYMAN.....	(Mhtn) New York City
LISSMAN, LOUIS.....	(Mhtn) New York City
LITZKY, ELIAS.....	(Mhtn) New York City
LOPEZ, ANGEL M.....	(Mhtn) New York City
LOWELL, WILLIAM A.....	Portland, Me.
LUBIN, ISAAC H.....	(Mhtn) New York City
LUND, CHARLES JOSEPH.....	Norwich, N. Y.
LUTZ, CHARLES, Jr.....	(Br) New York City
MCCANN, GEORGE W., Jr.....	Springfield, Ohio
MCCONNON, JOSEPH BERNARD.....	New Hartford, N. Y.
MACKEY, EDWARD.....	Port Jervis, N. Y.
MAFFAY, JOHN.....	(Mhtn) New York City
MAHER, WILLIAM P.....	Little Falls, N. Y.
MAHONEY, WILLIAM J.....	Canton, N. Y.
MAJONZ, JULIUS.....	(Mhtn) New York City
MALONEY, EDMUND TILDEN.....	Camden, N. Y.
MARGOWITZ, WILLIAM.....	(Mhtn) New York City
MARKOWITZ, ANNIE (Miss).....	(Mhtn) New York City
MASTER, WILLIAM RAY.....	Chester, N. Y.
MATTHIAS, FRANK EARNEST.....	(Q) New York City

MATTHIESSEN, EMIL.....	(Br) New York City
MUNRO, JOSEPH A.....	(Mhnt) New York City
MEACHEM, WILBUR BUTTZ.....	(R) New York City
MEDINA Y M., YGNACIO.....	Yucatan, Mexico
MERCIER, EDMOND.....	Taftville, Conn.
MEYER, BENJAMIN.....	Newark, N. J.
MEYER, GUSTAVE HIRSCH.....	(Mhnt) New York City
MILNE, EDWARD H.....	Newark, N. J.
MOES, ISIDORE.....	(Mhnt) New York City
MORETSKY, SAMUEL.....	(Mhnt) New York City
MYERSON, OFFIM.....	West Hoboken, N. J.
NATHAN, SOLOMON ALEXANDER.....	(Br) New York City
NAUMOFF, PHILIP SIMON.....	(Mhnt) New York City
NEAR, ALBERT NELSON.....	Bridgeport, Conn.
NELSON, WILLIAM ALBERT.....	Perth Amboy, N. J.
NESY, ALBERT.....	(Mhnt) New York City
NORTON, ARTHUR MITCHELL.....	Bridgeport, Conn.
NURKIN, JACOB JOSEPH.....	Newark, N. J.
OBERLE, HENRY EDWARD.....	(Mhnt) New York City
OLLEARO, ALEXANDRA (Miss).....	(Mhnt) New York City
OLSEN, EMANUEL.....	(Br) New York City
OTTO, ARNULF CHARLES.....	(Mhnt) New York City
OVERTON, WALTER CLYDE.....	(Bklyn) New York City
PAPE, JOHN H. W.....	Hoboken, N. J.
PARENT, NAPOLEON.....	Taftville, Conn.
PIERCE, VICTOR LUBIN.....	(Bklyn) New York City
PENNACCHIO, VITO.....	(Mhnt) New York City
PERDOE, CLARENCE C.....	Phillipsburg, N. J.
PERILLI, CÆSAR JOSEPH.....	(Mhnt) New York City
PERTHOU, CHARLES FREDERICK.....	(Bklyn) New York City
PETRAL, FRANK.....	(Mhnt) New York City
PHELPS, CHARLES EDWARD.....	Middletown, N. Y.
PIANTIEN, MATTHEW ANTHONY.....	(Mhnt) New York City
PINKEL, WILLIAM WARREN.....	Belleville, N. J.
PORCARI, JAMES.....	(Mhnt) New York City
PRA, PETER R.....	Passaic, N. J.
RAGLAND, FOUNTAIN WASHINGTON.....	Birmingham, Ala.
RATNER, DAVID.....	(Bklyn) New York City
REICH, LEO.....	(Mhnt) New York City
REISS, JACOB.....	(Mhnt) New York City
RENNA, ROSARIO.....	(Mhnt) New York City
RESNICK, MORRIS.....	(Mhnt) New York City
REUTER, RICHARD, JR.....	(Mhnt) New York City
RICCARDI, VICTOR HENRY.....	(Mhnt) New York City
RICH, LEO.....	(Mhnt) New York City
ROBBINS, JULIUS.....	(Mhnt) New York City
RUBANO, CHARLES.....	(Mhnt) New York City
RUBIN, HARRIS.....	(Mhnt) New York City
SABINE, WALLACE GEORGE.....	Utica, N. Y.
SAFIER, RAE (Miss).....	Newark, N. J.
SAMARELLI, HENRY.....	(Mhnt) New York City
SANDOR, MORRIS J.....	(Bklyn) New York City
SANTAGATA, EDWARD.....	(Mhnt) New York City
SCHUEUR, JOSEPH S.....	Berryville, Va.
SCHMIDT, FRED C.....	Union Hill, N. J.
SCHOENFELD, SAMUEL.....	Yonkers, N. Y.
SCHUBERT, BRUNO HUGO.....	Town of Union, N. J.
SCHULKIN, WILLIAM.....	(Mhnt) New York City
SCHWAIID, BENJAMIN.....	(Mhnt) New York City

SCHWARTZ, IGNATZ.....	(Bklyn) New York City
SCORELLA, MICHAEL.....	(Mhtn) New York City
SCOTT, VIRTUS ROSE.....	(Mhtn) New York City
SEAMAN, RALPH.....	Perth Amboy, N. J.
SEIGER, ABRAHAM.....	(Mhtn) New York City
SELLARO, SALVATORE.....	(Mhtn) New York City
SHARR, MORRIS.....	(Mhtn) New York City
SLADE, EBEN E.....	Whitesville, N. Y.
SLONE, MAX.....	(Mhtn) New York City
SNYDER, NATHAN.....	(Mhtn) New York City
SONTAG, FREDERICK FERDINAND.....	(Mhtn) New York City
SPANIER, AARON.....	(Bklyn) New York City
SPENCER, RAY V.....	Hempstead, N. Y.
STECHMANN, OSCAR H.....	Jersey City, N. J.
STEIN, CHARLES MORRIS.....	(Mhtn) New York City
STETTER, FRED P.....	(Bklyn) New York City
STUFT, OTTO.....	(Bklyn) New York City
SUCHODOLSKI, CHESTER F.....	Jersey City, N. J.
SYKES, SAMUEL ROY.....	Paterson, N. J.
TAFT, MORRIS A.....	(Br) New York City
TESSLER, ISIDOR.....	Bridgeport, Conn.
THEIS, ROBERT EDWARD.....	(Mhtn) New York City
THODE, EIDE FREDERICK.....	(Br) New York City
THOMAS, WILLIAM E.....	Olyphant, Pa.
TIERNEY, GEORGE VINCENT.....	(Mhtn) New York City
TOBIAS, MORRIS.....	(Mhtn) New York City
TOUSTER, MAYER HERMAN.....	(Mhtn) New York City
TRAVIS, SPENCER HARDENBURG.....	(Br) New York City
TRIVIGNO, JOHN.....	(Mhtn) New York City
TROMBA, NICHOLAUS.....	(Bklyn) New York City
UHLER, MORRIS.....	(Mhtn) New York City
UIHLEIN, WILLIAM HENRY.....	(Q) New York City
WALL, FRANK JEROME.....	New Haven, Conn.
WALLACH, ROBERT.....	(Mhtn) New York City
WARD, EVERETT C.....	Westbrook, Me.
WARLYN, BERNHARD.....	(Mhtn) New York City
WASHBURN, RALPH L.....	Peekskill, N. Y.
WEIANT, CHARLES A.....	Haverstraw, N. Y.
WEINSTEIN, FRANK J.....	(Mhtn) New York City
WEIR, HORACE G. S.....	Springfield, Ohio
WEISS, LEONARD HENRY.....	West New York, N. J.
WEISS, SAMUEL ARTHUR.....	Yonkers, N. Y.
WELLER, JOSEPH.....	(Mhtn) New York City
WESTCOTT, LESTER BOUGHTON.....	Danbury, Conn.
WHITE, HOWARD JULIAN.....	McGraw, N. Y.
WILHELM, JOHN ADAM.....	(Br) New York City
WINTER, NATHAN.....	(Mhtn) New York City
WOLFSON, WILLIAM LEON.....	Key West, Florida
YATES, AUGUSTUS WILLIAM.....	Kingston, N. Y.
ZAGALSKY, AARON ADOLPH.....	(Mhtn) New York City
ZIMMERMAN, JOHN THEODORE.....	(Mhtn) New York City
ZLINKOFF, ISIDORE NATHAN.....	(Mhtn) New York City
Juniors—Class of 1906.....	271

## SUMMARY

Graduate Students.....	17
Seniors—Class of 1905.....	154
Juniors—Class of 1906.....	271
Total.....	442



## SUMMER SESSION

1904

### ADMINISTRATIVE BOARD

NICHOLAS MURRAY BUTLER, Ph.D., LL.D.

*President of the University, Professor of Philosophy and Education*

JAMES EARL RUSSELL, Ph.D.

*Barnard Professor of Education, Dean of Teachers College*

JAMES CHIDESTER EGBERT, Ph.D.

*Professor of Roman Archaeology and Epigraphy, Director of the  
Summer Session*

FREDERICK PAUL KEPPEL, A.B.

*Secretary of the University*

RUDOLF TOMBO, JR., Ph.D.

*Adjunct Professor of Germanic Languages and Literatures, Registrar of  
the University*

### Faculty

HERBERT VAUGHAN ABBOTT, A.B.	English
LEWIS BURTON ALGER, A.M.	Education
FRANKLIN THOMAS BAKER, A.M.	English
CHARLES SEARS BALDWIN, Ph.D.	English
JESSIE HUBBELL BANCROFT	Physical Education
HAL TRUMAN BEANS, Ph.D.	Chemistry
MAURICE ALPHEUS BIGELOW, Ph.D.	Nature Study
WILHELM ALFRED BRAUN, Ph.D.	German
ELIZABETH BURCHENAL, B.L.	Physical Education
RUSSELL BURTON-OPITZ, M.D.	Physiology
FRANCIS XAVIER CARMODY, A.B., LL.B.	English
VICTOR JOHN CHAMBERS, Ph.D.	Chemistry
RICHARD ELWOOD DODGE, A.M.	Geography
JAMES CHIDESTER EGBERT, Ph.D.	Latin
CHARLES HUBERT FARNSWORTH	Music
LIVINGSTON FARRAND, A.M., M.D.	Anthropology
JOHN DRISCOLL FITZ-GERALD, II, A.B.	Romance Languages and Literatures

AMADEUS WILLIAM GRABAU, S.D.	<i>Geology</i>
JOHN WILLIAM HALL, A.M.	<i>Acting Principal of Speyer School</i>
WILLIAM HALLOCK, Ph.D.	<i>Physics</i>
CLAYTON MEEKER HAMILTON, A.M.	<i>English</i>
THOMAS HENRY HARRINGTON, C.E.	<i>Mechanical Drawing</i>
CHARLES MONTGOMERY HATHAWAY, Jr., Ph.D.	<i>English</i>
WILLIAM ADDISON HERVEY, A.M.	<i>German</i>
MARI RUEF HOFER	<i>Music</i>
WILLIAM BRIAN HOOKER, A.B.	<i>English</i>
ARTHUR CHARLES HOWLAND, Ph.D.	<i>History</i>
ABRAHAM VALENTINE WILLIAMS JACKSON, Ph.D., LL.D.	<i>English</i>
ALVIN SAUNDERS JOHNSON, Ph.D.	<i>Economics</i>
DANIEL JORDAN, B.Pd.	<i>Romance Languages and Literatures</i>
CAVALIER HARGRAVE JOÛET, Ph.D.	<i>Chemistry</i>
CHARLES HUBBARD JUDD, Ph.D.	<i>Psychology</i>
EDWARD KASNER, Ph.D.	<i>Mathematics</i>
CALVIN N. KENDALL, A.M.	<i>Education</i>
CASSIUS JACKSON KEYSER, Ph.D.	<i>Mathematics</i>
CLARA BARBARA KIRCHWEY	<i>Geography</i>
GEORGE HERBERT LING, Ph.D.	<i>Mathematics</i>
LOUIS AUGUSTE LOISEAUX, B. ès S.	<i>Romance Languages and Literatures</i>
JAMES MACLAY, Ph.D.	<i>Mathematics</i>
NELSON GLENN MCCREA, Ph.D.	<i>Latin</i>
JOHN ANGUS MCVANNEL, Ph.D.	<i>Education</i>
LAURIN HOVEY MARTIN	<i>Manual Training</i>
GEORGE LOUIS MEYLAN, M.D.	<i>Physical Education</i>
EDMUND HOWD MILLER, Ph.D.	<i>Chemistry</i>
PAUL MONROE, Ph.D.	<i>Education</i>
WILLIAM SEYMOUR MONROE, A.B.	<i>Psychology</i>
WILLIAM PEPPERRELL MONTAGUE, Ph.D.	<i>Philosophy</i>
HENRI FRANÇOIS MULLER, B. ès L.	<i>Romance Languages and Literatures</i>
WILLIAM HORACE NOYES, A.B.	<i>Manual Training</i>
ARTHUR FRANK JOSEPH REMY, Ph.D.	<i>German</i>
HENRY CLAPP SHERMAN, Ph.D.	<i>Chemistry</i>
WILLIAM SKARSTROM, M.D.	<i>Physical Education</i>
WILLIAM ROY SMITH, Ph.D.	<i>History</i>
RUDOLF TOMBO, Jr., Ph.D.	<i>German</i>
RUDOLF TOMBO, Sr., Ph.D.	<i>German</i>
FRANK LEO TUFTS, Ph.D.	<i>Physics</i>
HERMAN T. VULTRÉ, Ph.D.	<i>Domestic Science</i>
ADA WATTERSON, A.M.	<i>Nature Study</i>
CHARLES WILLIAM WEICK, B.S.	<i>Manual Training</i>
LUCY HESS WEISER	<i>Manual Training</i>
FREDERICK JAMES EUGENE WOODBRIDGE, A.M., LL.D.	<i>Philosophy</i>

## Assistants

CHARLES EARL ADAMS.....	<i>Physical Education</i>
FLORENCE BALDWIN.....	<i>Education</i>
EDGAR FAUVER, A.B.....	<i>Physical Education</i>
MICCO MILTIADES ACHILLES FONTRIER.....	<i>Mathematics</i>
WILLYSTINE GOODSSELL.....	<i>Education</i>
EVERETT J. HALL.....	<i>Chemistry</i>
CHARLES HOLROYD.....	<i>Swimming</i>
ALBERT BUELL LEWIS, A.B.....	<i>Anthropology</i>
CARLOTTA JOAQUINA MAURY, Ph.D.....	<i>Geology</i>
JESSIE CORINNE POND.....	<i>Manual Training</i>
GEORGE PAYN QUACKENBOS, A.M.....	<i>English</i>
HENRY ALFORD RUGER, A.B.....	<i>Psychology</i>
ELMA L. WARNER.....	<i>Physical Education</i>
EDWIN BENNETT WHEELER, B.S.....	<i>Physics</i>
GERTRUDE L. WOLFF, A.B.....	<i>Latin</i>

## GENERAL STATEMENT

The fifth Summer Session of the University opened July 6, 1904, and closed August 17. The registration day for the Summer Session was July 5. Examinations for certificates were held on August 17.

Courses were offered in anthropology, biology, chemistry, domestic science, economics, education, English (including rhetoric and composition), geography, geology, German, history, Latin, manual training, mathematics, mechanical drawing, music, philosophy, physical education, physics, physiology, psychology, and Romance languages.

Each course consisted of thirty lectures or other exercises, or their equivalent in laboratory or field work. Credit for such courses in the Summer Session as are accepted by the several Faculties of the University in partial fulfilment of the requirements for degrees or for teachers' diplomas, may only be claimed by those who sustained satisfactorily the examination at the conclusion of the course.

The tuition fee for the Summer Session is \$25, which covers three courses of instruction, the limit allowed by the regulations.

The usual matriculation fee of \$5 is charged to all students who join the University for the first time at the Summer Session. The Gymnasium fee of \$5, including the use of the gymnasium, a private locker, and the privilege of the swimming pool, is required of all students who take certain courses in physical education, as listed in the *Announcement*, or who make use of the swimming pool, but is optional for all others.

The Summer Session is open to men and women on equal terms.

For the Announcement of the Summer Session of 1905, which will open July 5, and offer a wide range of courses, or for information regarding dormitory accommodations, or board and lodging, address the Secretary of Columbia University, New York.

**Summer Courses in Medicine**

The second series of summer courses in Medicine for men was offered in 1904. Courses were given in clinical pathology, dermatology, gynecology, laryngology, obstetrics, ophthalmology, pediatrics, physical diagnosis, and surgery (hospital and minor).

This work will be continued in the summer of 1905, and persons interested are requested to apply for the Announcement of the Summer Courses in Medicine, which will be furnished without charge upon application after February 1 to the Secretary of the University.



## REGISTER OF STUDENTS, 1904

### Summer Session

ABBOTT, MARY.....	29 East 29th Street
ABBOTT, MARY ELIZABETH.....	Rochester, N. Y.
ABELOW, SAMUEL PHILIP.....	123 Seigel Street, Brooklyn, N. Y.
ADAIR, MARY HERBERT.....	Raritan, N. J.....1230 Amsterdam Avenue
ADAMS, BEULAH AGNES.....	Guilford, Conn.....430 West 118th Street
ADAMS, IRENE BENNETT.....	Mount Kisco, N. Y.....739 East 137th Street
ADAMS, (MRS.) SARAH OLMSTEAD....	Savannah, Ga.....247 West 103d Street
ADLER, MILTON.....	568 Bambridge Street, Brooklyn, N. Y.
AGNEW, THOMAS, JR.....	Bloomfield, N. J.
AHERN, EDITH CORNELL.....	1963 Anthony Avenue
AHERN, JOSEPHINE M.....	520 Carlton Avenue, Brooklyn, N. Y.
AICHER, FRANK ALBERT.....	Denver, Col.....902 West End Avenue
ALEXANDER, LUTHER HERBERT.....	Stratford, Canada.....543 West 141st Street
University of Toronto, A.B., 1883; A.M., 1885.	
ALLEN, FANNIE IRENE.....	Mt. Pleasant, Mich.....1230 Amsterdam Avenue
ALLIS, MARY LINCOLN.....	Amherst, Mass.....1230 Amsterdam Avenue
ALPAUGH, HARRIET EVANS.....	Lebanon, N. J.
ALWORTH, MARSHALL WILLIAM.....	Duluth, Minn.....430 West 118th Street
AMBROSE, MADGE GENEVIEVE.....	1931 Madison Avenue
AMELI, MARY JANE.....	1422 Pacific Street, Brooklyn, N. Y.....419 West 118th Street
AMERMAN, FRANCES LOUISE.....	122 West 130th Street
AMMERMAN, STEPHEN LEWIS.....	Wilkesbarre, Pa.....1145 Tinton Avenue
Lafayette College, Ph.B., 1893; M.S., 1896.	
ANDERSON, HELEN BEATRICE.....	114 Remsen Street, Astoria, L. I.
ANDREWS, WILLIAM ALMON.....	Allegany, N. Y.....430 West 118th Street
ANKROM, ANNA.....	Waynesburg, Pa.....1230 Amsterdam Avenue
AREND, KATHARINE.....	1 West 106th Street
ARNOLD, FELIX.....	131 East 63d Street
College of the City of New York, A.B., 1898.	
New York University, Pd.D., 1903.	
ARNOLD, HARRY CUTLER.....	"Hargrave," West 72d Street
ARNOLD, JAMES LORING.....	418 West 118th Street
Columbia University, A.B., 1891.	
University of Leipzig, Ph.D., 1897.	
ASHCROFT, CARRIE VAN RENSSELAER....	St. Louis, Mo.....11 East 98th Street
BABB, VIRGINIA.....	Columbus, O.....438 West 116th Street
BABCOCK, DUDLEY PAUL.....	Fanwood, N. J.
BABCOCK, HENRY GRINNELL.....	Fanwood, N. J.
BADGLEY, IDA JANE.....	165 South 9th Street, Brooklyn, N. Y.
BAILEY, VIRGINIA.....	Newnan, Ga.....435 West 123d Street
BAKER, BYRON WARREN.....	501 West 149th Street
BAKER, CHARLES MCCOY.....	417 West 114th Street
Dickinson College, A.B., 1903.	

- BAKER, HENRIETTA GERTRUDE.... Baltimore, Md.....1230 Amsterdam Avenue  
BALDWIN, EDWIN FRANKLIN.....175 West 107th Street  
BANGS, HENRY McCOMB.....627 West 115th Street  
BARBOUR, FANNIE LINCOLN..... Baltimore, Md.....8 West 134th Street  
BARCLAY, MARGARET LOUISE..... Baltimore, Md.....1230 Amsterdam Avenue  
BARKER, BESSIE..... La Grange, Ga.....356 West 58th Street  
BARTOL, GERTRUDE JOSEPHINE.....90 St. Marks Avenue, Brooklyn, N. Y.  
BASS, MURRAY HAROLD.....57 West 91st Street  
Columbia University, A.B., 1903.  
BATES, VIRGINIA..... Clifton, S. C.....1230 Amsterdam Avenue  
Limestone College, A.M., 1900.  
BATTEY, LEWIS BIRCH..... Fall River, Mass.....415 West 115th Street  
Columbia University, Manual Training Diploma, 1904.  
BECHET, MARIE ANNUNCIATA..... Fort Wadsworth, Staten Island  
BECHT, JOHN GEORGE..... West Chester, Pa.....1230 Amsterdam Avenue  
Lafayette College, B.S., 1890; M.S., 1893.  
BECK, LOUISE.....37 East 31st Street  
BECKWITH, MARTHA WARREN.. Honolulu, Oahu, Hawaiian Islands.439 West 123d Street  
Mt. Holyoke College, B.S., 1893.  
BENNETT, AGNES LEONARD.....323 State Street, Hackensack, N. J.  
Columbia University, A.B., 1900.  
BENNETT, GEORGE LEWIS..... Trenton, N. J.....420 West 118th Street  
Columbia University, C.E., 1898.  
BERG, CLARA DE LISSA.....204 West 94th Street  
Columbia University, A.B., 1898; A.M., 1902.  
BERG, WILLIAM NATHAN.....331 East 88th Street  
Columbia University, B.S., 1904.  
BERKAN, MARGARET CLARA..... Passaic, N. J.  
BERMINGHAM, FLORENCE.....202 West 138th Street  
BERRY, EDWIN STEWART..... San Francisco, Cal.....457 West 123d Street  
BIRMINGHAM, MARGARET LORETTA.....15 Henry Street, Jersey City, N. J.  
BIVINS, CHALFANT EDWIN.....764 De Kalb Avenue, Brooklyn, N. Y.  
BLACK, GRACE MARY..... Indianapolis, Ind.....1230 Amsterdam Avenue  
BLACKFORD, GAY ROBERTSON..... Abingdon, Va.....54 East 59th Street  
BLAIR, LAURALD.....210 Columbia Heights, Brooklyn, N. Y.  
BLANK, MARCO ISSER.....42 West 115th Street  
New York University, M.D., 1897.  
Columbia University, A.B., 1903.  
BLOOM, MIRIAM LOUISE.....416 5th Street, Brooklyn, N. Y.  
BLUHM, JULIUS.....25 East 124th Street  
College of the City of New York, A.B., 1899.  
BOISSE, PIERRE SETH.....137 East 73d Street  
BOLLANHAGEN, MARIE THEODORE.....331 Greene Avenue, Brooklyn, N. Y.  
BOORMAN, (MRS.) CHARLOTTE SAYRE.....Boulevard Lafayette, West 173d Street  
BORCHERS, JEANNETTE..141 Midwood Street, Brooklyn, N. Y...417 West 118th Street  
BOUGHER, EDITH.....Palmyra, N. J.....37 Morningside Avenue  
BOURLAND, ALBERT PIKE.....Nashville, Tenn.....1230 Amsterdam Avenue  
Southwestern Baptist University, A.M., 1882.  
BOWER, KATE LOUISE.....320 St. Nicholas Avenue  
BOYER, LOUISE COMEGYS.....311 West 95th Street  
BRACKIN, JOHN TUDOR.....Philadelphia, Penn.....1230 Amsterdam Avenue  
BRADLEY, HELEN M.....Southport, Conn.....1230 Amsterdam Avenue  
BRADY, KATHARINE ROGERS.....72 Van Siclen Avenue, Brooklyn, N. Y.  
BRADY, WILLIAM GAGE, JR.....109 West 122d Street  
BRAKER, HENRIETTE.....607 11th Street, Brooklyn, N. Y.

- BRAND, JOSEPHINE.....332 Third Avenue  
 BRANDAU, GEORGE JULIUS.....115 Butler Street, Flatbush, N. Y.  
 BRETT, ANNA.....Albany, N. Y.....419 West 118th Street  
 BRETT, EDITH MARILLA.....Albany, N. Y.....419 West 118th Street  
     Normal College, Albany, N. Y., Pd.B., 1898.  
 BREVES, WILHELMINE EMMA.....647 Fifth Avenue, Brooklyn, N. Y.  
 BREWER, FRANCIS EZRA..Gilbertsville, N. Y.....4 Albion Place, Port Richmond, S. I.  
     Cornell University, A.B., 1892.  
     Indiana University, A.M., 1893.  
 BREWSTER, GUY OTIS.....Grantwood, N. J.....240 West 109th Street  
     Jefferson Medical College, M.D., 1896.  
 BREWSTER, JOHN ALFRED.....Geauga Lake, O.....1230 Amsterdam Avenue  
     Harvard University, A.B., 1896.  
 BRIANT, LENA.....Dover, N. J.....419 West 118th Street  
 BRICK, FRANCIS AUGUSTINE.....49 Avenue C, Bayonne, N. J.  
     Boston College, A.B., 1896.  
 BRIGGS, FRANK ELLSWORTH.....Nantucket, Mass.....526 West 123d Street  
     Bowdoin College, A.B., 1894.  
 BRILL, ANNA MATHILDA.....West New York, N. J.....314 West 14th Street  
 BRIOIS, LÉONARD FRANÇOIS DESIRÉ....Syracuse, N. Y.....163 West 34th Street  
 BRISTOWE, FLORENCE.....27 East 30th Street  
 BROCHHAUSEN, ANNA.....Indianapolis, Ind.....1230 Amsterdam Avenue  
 BRONTÉ, EVELINE.....608 Mott Avenue  
 BROOKS, MARY ELIZABETH.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 BROUWER-ANCHAR, FREDERICK LINDSAY.....219 West 142d Street  
 BROWN, CECILE.....5609 Third Avenue, Brooklyn, N. Y.  
 BROWN, GEORGIANA ELIZABETH.....167 Decatur Street, Brooklyn, N. Y.  
 BROWN, HAROLD HAVEN.....518 West 151st Street  
 BROWN, RUSSELL CHRISTOPHER.....Holyoke, Mass.....168 West 22d Street  
     Amherst College, A.B., 1902.  
 BROWN, WINIFRED NAOMI.....348 Summit Avenue, Mt. Vernon, N. Y.  
 BROWNE, THOMAS JAMES.....Germantown, Pa.....501 West 50th Street  
 BROWNSCOMBE, FREDERIC JOHN.....Montpelier, Vt.....530 West 123d Street  
 BRUCE, GEORGE HOWARD, Jr.....Lawrenceville, N. J.....332 Lenox Avenue  
     Central University of Kentucky, A.B., 1899; A.M., 1900.  
 BRYAN, FREDERICK JOSEPH.....372 Clermont Avenue, Brooklyn, N. Y.  
 BUCHER, HERMAN.....162 East 61st Street  
 BUCK, EDITH CORA.....Cedar Falls, Ia.....1230 Amsterdam Avenue  
     Iowa College, A.B., 1882; A.M., 1885.  
 BUCKINGHAM, EMMA MAY.....Hamlington, Pa.....1230 Amsterdam Avenue  
 BUGUE-ScriBOT, LAURE MARIE AUGUSTINE.....211 West 117th Street  
 BURDICK, REGINALD HOUGHTON.....Pelham Manor, N. Y.  
 BURKS, MARGIE.....Macon, Ga.....1230 Amsterdam Avenue  
 BURKS (Mrs.) RIA MOUNGER.....Macon, Ga.....1230 Amsterdam Avenue  
     Wesleyan College, A.B.  
 BURNETT, HENRY LAWRENCE, Jr.....7 East 12th Street  
 BURNHAM, CAROLYN HELENA.....Hartford, Conn.....1230 Amsterdam Avenue  
 BURROUGHS, ARETUS P.....New Albion, N. Y.....430 West 118th Street  
     Colgate University, B.S., 1900.  
 BURRUSS, JULIAN ASHBY.....Richmond, Va.....1230 Amsterdam Avenue  
     Virginia Polytechnic Institute, B.S., 1898.  
 BURT, MARY.....Macon, Ga.....1230 Amsterdam Avenue  
 BURTON, LUCY DOETCH.....Somerville, Tenn.....360 West 58th Street  
 BUSHONG, ALICE MARGARET.....442 Ninth Street, Brooklyn, N. Y.  
 BUTLER, ELIZABETH.....449 Fifth Street, Brooklyn, N. Y.

- BYRNE, FREDERICK JOHN.....623 Lexington Avenue  
 BYRNE, JOSEPH PARKE.....747 East 176th Street  
 CAHN, ANITA GELLA.....115 West 131st Street  
     Columbia University, A.B., 1903.
- CALHOUN, EMMA SHAW.....201 West 100th Street  
 CALHOUN, MARY EDWARDS.....541 West 124th Street  
 CALLAHAN, JOSEPH THOMAS PAUL.....332 East 123d Street  
     College of the City of New York, B.S., 1902.
- CAMERON, SAMUELLA.....239 West 136th Street  
     Normal College, N. Y. City, A.B., 1895.
- CAMPBELL, PETER.....Elizabeth, N. J.  
     Seton Hall College, A.B., 1900.
- CAMPBELL, SARAH ETHEL.....277 High Street, Orange, N. J.  
     Smith College, A. B., 1896.
- CANTRELL, MARY.....860 East 134th Street  
 CAPLAN, ELIAS NATHAN.....30 Ridge Street  
     College of the City of New York, A.B., 1899.
- CAPRON, HARRIET WELLER.....467 Bergen Avenue, Jersey City, N. J.  
 CAREW, JAMES.....235 West 38th Street  
 CAREY, GEORGE JOSEPH FRANCIS.....252 West 219th Street  
 CARLBACH, WALTER MAXWELL.....136 West 86th Street  
 CARLISLE, LENORE NELSON.....240 Fifth Avenue, Mt. Vernon, N. Y.  
     New Windsor College, Md., A.B.
- CARPENTER, CAROLINE ESTHER.....134 East 44th Street  
 CARR, MARY ANNE HAYDN.....67 West 93d Street  
 CARRINGTON, WARING.....Newark, N. J.....310 West 115th Street  
 CARTER, HARRIET IRENE.....Hornellsville, N. Y.....1230 Amsterdam Avenue  
 CARTER, JANE GRAY.....513½ East 118th Street  
     Normal College, N. Y. City, A.B., 1901.  
     New York University, A.M., 1904.
- CARTER, JOSEPH FRANCIS.....353 Sumner Street, East Boston, Mass.  
     Boston University, Ph.B., 1902.
- CARTER, MARY CAROLINE.....513½ East 118th Street  
 CASE, LESLIE VERNE.....Tarrytown, N. Y.....1161 Amsterdam Avenue  
 CASHMAN, JOSEPH FRANCIS.....148 Kent Street, Brooklyn, N. Y.  
 CAUGHY, MAMIE VIRGINIA.....Baltimore, Md.....1230 Amsterdam Avenue  
     Woman's College, Baltimore, A.B., 1902.
- CHAMBERS, MARY DAVOREN.....Decatur, Ill.....1230 Amsterdam Avenue  
 CHAMPION, ELLA.....Wharton, N. J.  
 CHAPMAN, ROSA BELL.....Newburgh, N. Y.  
 CHARLTON, EMILY WALTER.....Savannah, Ga.....1230 Amsterdam Avenue  
     University of Nashville, A.B., 1896; A.M., 1897.
- CHASENT, CLOTILDE.....146 Hudson Boulevard, Union Hill, N. J.  
 CHATER, ELLEN MACRAE DUNDAS.....Englewood, N. J.  
     Vassar College, A.B., 1894.
- CHENEY, GEORGE WALKBY.....236 Johnson Avenue, Brooklyn, N. Y.  
 CHESTON, HENRY CLIFFORD.....453 West 155th Street  
     Dickinson College, Ph.B., 1888.  
     University of Wooster, Ph.D., 1899.
- CHRISTENSEN, DAVID HARRY.....Salt Lake City, Utah.....1230 Amsterdam Avenue  
 CHRYSTIE, JAMES NICHOLSON.....101 West 128th Street  
 CLARK, FREDERICK HUNTINGTON.....616 West 113th Street  
 CLARK, MARGARET ELIZABETH.....Tenafly, N. J.  
 CLARKE, (MRS.) ROSA LOW.....Athens, Ga.....21 Gardiner Avenue  
 CLEAR, MARIE RUSSELL.....534 East 86th Street



- CLEARMAN, AMY DE COUDRÉ.....23 Villa Avenue, Station A, Yonkers, N. Y.  
 CLEARY, KATHERINE S. M.....Newburgh, N. Y.  
 CODY, MARGARET.....Chicago, Ill.....419 West 118th Street  
 COFFIN, MARY ELIZABETH.....Asbury Park, N. J.....1230 Amsterdam Avenue  
 New York University, Pd.M., 1894; Pd.D., 1896.  
 COHEN, AMELIA.....116 West 84th Street  
 COHEN, LOUIS JACOB.....1867 Seventh Avenue  
 College of the City of New York, B.S., 1899.  
 New York University, M.S., 1902.  
 COHEN, RACHBL.....Baltimore, Md.....520 West 145th Street  
 COHEN, REUBEN SOLOMON.....Cambridge, Mass.....1230 Amsterdam Avenue  
 COKER, EDWARD CALEB.....Greenwood, S. C.....524 West 123d Street  
 University of Virginia, A.B., 1897.  
 COKER, FRANCIS WILLIAM.....Darlington, S. C.....524 West 123d Street  
 Harvard University, A.B., 1902.  
 COLE, RALPH MARTIN.....Tottenville, S. I., N. Y.  
 COLEMAN, SAMUEL FREDERICK.....320 West 37th Street  
 College of the City of New York, B.S., 1898.  
 COLLINS, EVELYN LAWRENCE.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 COLLINS, FRANCIS WINIFIELD.....373 West 123d Street  
 Colorado Agricultural College, B.S., 1904.  
 COLSTEN, ALBERT LLOYD.....218 Adelphi Street, Brooklyn, N. Y.  
 Cornell University, C.E., 1895.  
 COMBES, ABBOTT CARSON, JR.....Elmhurst, Borough of Queens, N. Y.  
 CONANT, SARAH HOWARD.....526 West 114th Street  
 Wellesley College, B.S., 1887.  
 CONGER, DELLA LOUISE.....New Brunswick, N. J.....1230 Amsterdam Avenue  
 CONOVER, GERTRUDE ROWENA.....Plainfield, N. J.  
 CONTAT, DELPHINE.....191 Calyer Street, Brooklyn, N. Y.  
 COOK, ALBERT SAMUEL.....Baltimore, Md.....1230 Amsterdam Avenue  
 Princeton University, A.B., 1895.  
 COOK, FRIEDA.....1267 56th Street, Brooklyn, N. Y.  
 COOLBAUGH, MELVILLE FULLER.....Colorado Springs, Colo.....457 West 123d Street  
 Colorado College, B.S., 1902.  
 COOLEY, ALMA.....Joliet, Ill.....521 West 123d Street  
 COOPER, ANNA DAVIS.....261 Broad Street, Westfield, N. J.  
 COOPER, ISABEL SUTHERLAND.....Paterson, N. J.  
 COPELAND, HELEN CONSTANCE.....296 Vanderbilt Avenue, Brooklyn, N. Y.  
 CORN, BELMONT.....23 East 128th Street  
 CORNEY, EVIE.....Flushing, N. Y.....419 West 118th Street  
 CORNISH, HARRIET TRYPHENIA.....Gillette, N. J.....620 West 148th Street  
 CORNWELL, BLANCHE AMELIA.....Brooklyn, N. Y.  
 COSTIGAN, EDWARD STEPHEN.....529 West 152d Street  
 COTTER, MAY AGNES.....Plattsburg, N. Y.....1230 Amsterdam Avenue  
 COTTRELL, JOHN BOARDMAN.....1097 Park Place, Brooklyn, N. Y.  
 Alfred University, A.B., 1893.  
 New York University, A.M., 1900.  
 COWAN, MARTHA LUCINDA.....Waterbury, Conn.....1230 Amsterdam Avenue  
 COYLE, KATHERINE AGNES.....Montoe, N. J.  
 CRAHAN, MARY GERTRUDE.....Fulton, N. Y.....2465 Broadway  
 CRAWFORD, AGNES MACKELLAR.....51 Bay View Avenue, Jersey City, N. J.  
 CRAWFORD, LEONIDAS WAKEFIELD, JR.....Greensboro, N. C.....Columbia University  
 Trinity College, Durham, N. C., A.B., 1898.  
 Columbia University, A.M., 1903.  
 CRAWFORD, MARGARET MACLEAN.....51 Bay View Avenue, Jersey City, N. J.  
 Columbia University, A.B., 1900.

- CREMINS, JULIA CECILIA.....356 East 57th Street  
 CRITTENDEN, MARY G.....356 East 57th Street  
 CROCKETT, JOSEPHINE DELANO.....791 Park Avenue  
 CROSSON, ANNA GOLDEN.....2045 Boston Road, Bronx Borough  
 CULLEN, KATHLEEN MARY...376 Clinton Street, Brooklyn...1230 Amsterdam Avenue  
 CULLER, (MRS.) JULIA ABBOTT.....Strasburg, Va.....419 West 118th Street  
     Roanoke College, A.B., 1895.  
 CUMMINGS, MARY MARGARET.....230 East 71st Street  
 CURTIS, CATHARINE GORDON.....Elmira, N. Y.....Oradell, N. J.  
     Elmira College, A.B., 1895.  
 CURTIS, FRANK DANFORTH.....156th Street, West of Broadway  
 CURTIS, THOMAS ADRIAN.....Far Rockaway, L. I.  
     College of the City of New York, A.B., 1896.  
     New York University, LL.B., 1898.  
 DALLMAN, LUCIE MAGNIN.....142 East 60th Street  
 DALLMAN, MARIE MAGNIN.....142 East 60th Street  
 DALTON, ELIZABETH.....Jersey City, N. J.....421 West 118th Street  
 DARROW, ANNA ELIZA.....90 Decatur Street, Brooklyn, N. Y.  
 DAVENPORT, FRANCES ISABEL.....Cortland, N. Y.....3136 Broadway  
     Columbia University, B.S., 1904.  
 DAVIDSON, BESSIE.....Waco, Texas.....1230 Amsterdam Avenue  
 DAVIDSON, ROSE.....171 East 83d Street  
 DAVIS, BETSEY BUCHANAN.....523 West 173d Street  
     Normal College, N. Y. City, A.B., 1899.  
     New York University, A.M., 1902.  
 DAVIS, JACKSON.....Elk Hill, Va.....430 West 118th Street  
     William and Mary College, A.B., 1902.  
 DAVIS, THOMAS JOSEPH, JR.....589 St. Marks Avenue, Brooklyn, N. Y.  
 DEACON, HELEN GRAZIELLE.....108 East 86th Street  
 DECKER, FANNE HULL.....404 3d Street, Brooklyn, N. Y.  
 DE COMPS, ANTOINETTE LOUISE.....75 St. Marks Avenue, Brooklyn, N. Y.  
 DE COMPS, PAULINE LOUISE.....75 St. Marks Avenue, Brooklyn, N. Y.  
 DENNY, GRACE ELLA.....St. Paul, Minn.....419 West 118th Street  
 DEVER, MARY.....Cleveland, Ohio.....1230 Amsterdam Avenue  
 DIETERLEN, CHARLES THEODORE EMILE.....200th Street and Valentine Avenue  
 DODMAN, ALFRED CHARLES, JR.....235 West 108th Street  
 DOHERTY, MARY.....Ovid, N. Y.....33 West 99th Street  
 DOI, SUKESABURO.....Tokio, Japan  
 DONALDSON, DOUGLAS....Detroit, Mich.....234 Washington Avenue, Brooklyn, N. Y.  
 DONOHUE, THOMAS JAMES.....1094 Franklin Avenue  
     College of the City of New York, B.S., 1897.  
 DONOVAN, HELEN.....Rochester, N. Y.....80 West 119th Street  
 DOOLITTLE, SHERWOOD BURDETT.....Willimantic, Conn.  
 DOON, CHARLES WEBSTER.....704 East 138th Street  
 DORLAND, GEORGE WILLIAM.....206 West 133d Street  
     College of the City of New York, B.S., 1897.  
 DOSTER, JAMES JARVIS.....Troy, Ala.....519 West 123d Street  
     Normal College, Troy, Ala., Ph.B., 1902.  
 DRESLER, DOROTHY EMILIA.....334 West 88th Street  
     Normal College, N. Y. City, A.B., 1896.  
 DRUCKER, AARON PHINIUS.....1359 Fifth Avenue  
     Columbia University, A.B., 1901.  
 DRUMMOND, EVELYN MAUD.....Hampton, Va.....1230 Amsterdam Avenue  
 DRUMMOND, GRACE.....Newark, N. J.....1230 Amsterdam Avenue  
 DU BOIS, SOLOMON ELTINGE.....2066 Fifth Avenue

- DUNCAN, DAVID.....459 Classon Avenue, Brooklyn, N. Y.
- DUNKEL, KATE.....Richmond, Va.....1230 Amsterdam Avenue
- DURFEE, CLAYTON GEORGE.....Fredonia, N. Y.....1939 Madison Avenue
- DUSEL, WILLIAM JOHN.....32 Morningside Avenue
- DYER, DANIEL PIKE.....Worcester, Mass.....527 West 123d Street
- EAGLESON, JOSEPH IRWIN.....Cambridge, Ohio.....1230 Amsterdam Avenue
- EBERMAN, SARAH ELLARD.....Bethlehem, Pa.....1230 Amsterdam Avenue
- ECKELMANN, MARION HANNAH.....Jersey City, N. J.
- EDGEELL, FRANK DEXTER.....1246 Pacific Street, Brooklyn, N. Y.  
Amherst College, A.B., 1893.
- EDMUNDS, CLEMENT EUGENE.....Freeland, Pa.....466 Amsterdam Avenue
- EDWARDS, CHARLES WILLIAMS.....Durham, N. C.....509 West 124th Street  
Trinity College, A.B., 1894.  
Tulane University, A.M., 1896.  
New York University, M.S., 1897.
- EIMER, AUGUST OTTO.....30 Irving Place
- EISENSTEIN, LEO.....2310 2d Avenue
- EMERSON, ELLA CAMPBELL.....Bethel, Conn.....32 West 123d Street
- ENDELMAN, EDWARD.....130 Madison Street  
College of the City of New York, B.S., 1900.  
New York University, A.M., 1903.
- ENGLISH, (MRS.) WALTER TAYLOUR.....Los Angeles, Cal....1230 Amsterdam Avenue
- ESTABROOKE, WILLIAM LUDLOW.....Kingston, N. Y.....222 West 123d Street  
Harvard University, A.B., 1901.
- EVANS, DANIEL BUDO.....90 Greene Avenue, Brooklyn, N. Y.
- EVANS, ELSA ELIZABETH.....Tottenville, S. I.....524 West 152d Street
- EVANS, ROBERT HAYES.....Hampton, Va.....18 West 135th Street
- EVANS, SUSAN IDA.....Denton, Texas.....430 West 118th Street  
North Texas Normal School, B.S., 1894.
- FAGER, CHARLES BUFFINGTON, JR.....Harrisburg, Pa.....1230 Amsterdam Avenue  
Gettysburg College, A.B., 1890.  
University of Pennsylvania, M.D., 1893.
- FARNHAM, EDITH HELEN.....Salt Lake City, Utah.....1230 Amsterdam Avenue
- FARRELL, SUSAN VERONICA.....951 Lexington Avenue
- FAUVER, EDGAR.....Oberlin, Ohio.....332 Lenox Avenue  
Oberlin College, A.B., 1899.
- FAUVER, EDWIN.....Oberlin, Ohio.....332 Lenox Avenue  
Oberlin College, A.B., 1899.
- FAY, MARY MARGARET.....128 East 105th Street  
Normal College, N. Y. City, A.B., 1899.
- FEIGUS, SAMUEL CHARLES.....221 East 106th Street
- FERRIE, SARAH GRAHAM.....468 Jefferson Avenue, Brooklyn, N. Y.
- FIGHIERA, ADELINA.....366 West 25th Street  
Normal College, A.B., 1902.
- FINDEISEN, WILLIAM ERNST.....138 Clarkson Street, Brooklyn, N. Y.
- FISHER, LAURA.....Boston, Mass.....369 Park Hill Avenue, Lowerre, N. Y.
- FISHER, MARY HEDGES.....606 West 113th Street  
Columbia University, A.B., 1902.
- FITCH, RUSSEL MARTIN.....South Amboy, N. J.
- FITZPATRICK, EDWARD AUGUSTUS.....69 Pike Street
- FITZSIMONS, MARY MARGARET.....Utica, N. Y.....246 West 128th Street
- FLETCHER, SARA ELIZABETH.....829 Park Avenue
- FLOOD, CHRISTABEL.....726 East 134th Street  
Normal College, N. Y. City, A.B., 1899.  
New York University, A.M., 1903.
- FLOWER, HERBERT J.....Passaic, N. J.

- FLUHRER, LEWIS PULLMAN.....604 West 114th Street  
 FOLSAN, FRANCES LOUISE.....Buffalo, N. Y.....2033 Madison Avenue  
 FORBES, IDA ISABEL.....915 Greene Avenue, Brooklyn, N. Y.  
 FORD, MAY JEANNETTE.....509 West 142d Street  
 FORSYTH, LOUISE.....318 West 51st Street  
 POSTER, MYRTLE DAISY.....Fitchburg, Mass.....1230 Amsterdam Avenue  
 POTHERGILL, LUCY EMILY.....Fall River, Mass.....1230 Amsterdam Avenue  
 FOWLER, ELBERT.....Griffin, Ga.....418 West 118th Street  
 FRANCIS, CAROLYN LOUISE.....Honeoye Falls, N. Y.....239 West 141st Street  
 FRANK, JOSEPH JULIUS.....138 West 78th Street  
 FRANKE, CLARA ELSA.....Tarrytown, N. Y.  
 FRAZER, GEORGE.....Brooklyn, N. Y.....415 West 118th Street  
     Adelphi College, A.B., 1903.  
 FRAZIER, ELIZABETH JANE.....Yonkers, N. Y.....29 West 42d Street  
 FREEMAN, MINERVA.....Dover, N. J.....419 West 118th Street  
     Maryville College, A.B., 1897.  
 FRETZ, THOMAS.....Newark, N. J.....1230 Amsterdam Avenue  
     Lafayette College, A.B., 1890; A.M., 1893.  
 FRIEDENHEIT, CLARA.....178 East 64th Street  
 FROST, CLARA LOUISE.....96 Lefferts Place, Brooklyn, N. Y.  
 FULTON, FANNIE CLOTILDE.....2703 Creston Avenue  
 GADDIS, CAROLYN JOSEPHINE.....529 West 113th Street  
 GAFNEY, MARY ELEANOR.....172 East 72d Street  
 GAMMON, MONTAGUE.....Elmhurst, L. I., N. Y.  
     University of Georgia, B.S., 1895.  
     Columbia University, A.M., 1902.  
 GANO, LINA E.....526 West 114th Street  
     Kansas State University, B.D., 1883; A.B., 1904.  
 GARNETT, MARTHA.....Phoenix, Ariz.....1230 Amsterdam Avenue  
 GASHWILER, MARIE FRANCES LOWELL.....Colorado Springs, Colo. 1230 Amsterdam Avenue  
     Colorado College, A.B., 1902.  
 GASTON, MABEL.....Somerville, N. J.  
 GELBACH, MARIE.....821 Hudson Street, Hoboken, N. J.  
 GELIEN, JOHANNA.....41 First Street, Hoboken, N. J.  
 GEOGHEGAN, KATE CECILIA.....156 Midwood Street, Brooklyn, N. Y.  
 GERMANN, EDWARD HENRY.....90 Norman Avenue, Brooklyn, N. Y.  
 GIBSON, ANNE GRACE.....Monroe, N. Y.....250 West 44th Street  
 GIBSON, CATHERINE BYRNE.....22 Prospect Street, Yonkers, N. Y.  
 GIBSON, JAMES STAVART.....36 St. Luke's Pl., Montclair, N.J.  
     Alleghany College, A.B., 1890; A.M., 1891; Ph.D., 1893.  
 GILLARD, MAY EDITH.....Rochester, N. Y.....East Orange, N. J.  
 GILLILAND, MARGARET NANCY.....New Bloomfield, Pa.....528 West 123d Street  
     Wilson College, A.B., 1897.  
 GILLIN, JOHN LEWIS.....Waterloo, Iowa.....231 East 76th Street  
     Upper Iowa University, Lit.B., 1894.  
     Iowa College, A.B., 1895.  
     Columbia University, A.M., 1903.  
     Union Theological Seminary, B.D., 1904.  
 GISH, WILLIAM HENRY.....East Stroudsburg, Pa.....1230 Amsterdam Avenue  
 GOERKE, (MRS.) AIMES EDITH.....1 Rathbun Avenue, White Plains, N. Y.  
 GOLDBACHER, EMILY.....109 West 131st Street  
 GOLDIE, EMMA.....13 East 127th Street  
 GOLDSTONE, LAWRENCE PRESTON, JR.....London, England  
 GOODWIN, EMILY NICHOLS.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 GORDON, JACOB.....188 Middleton Street, Brooklyn, N. Y.  
 GORDON, MARY.....Portland, Conn.....1230 Amsterdam Avenue  
     Mt. Holyoke College, B.L., 1894.



- GORMAN, VINCENT ANGELO.....144 Rodney St., Brooklyn, N. Y.  
 St. Francis Xavier College, A.B., 1900.
- GRAHAM, MARGARET.....Westchester, N. Y.  
 GRAY, LAURA BELLE.....Dayton, Ohio.....1230 Amsterdam Avenue  
 GRAY, SHIRLEY EUGENE.....Griggsville, Ill.....10 West 119th Street  
 GREEFF, GERHARD ERNEST HUGH.....627 West 115th Street  
 GREENE, ETHEL ALICE.....29 West 90th Street  
 GREENE, OLIVE WARD.....1 Mead Avenue, Greenwich, Conn.  
 GREGG, EVA.....Cedar Falls, Iowa.....1230 Amsterdam Avenue  
 GREGORY, WILLIAM KING.....149 West 12th Street  
 Columbia University, A.B., 1900.
- GREY, EVA WOODWARD.....32 Cambridge Place, Brooklyn, N. Y.  
 Cornell University, A.B., 1898; A.M., 1899.
- GRISWOLD, EDWARD DIXON.....58 West 117th Street  
 GRUENING, CLARA EMILY.....36 East 57th Street  
 Columbia University, A.B., 1903.
- GULICK, MARY ALICE.....Westport, Conn.  
 HADLEY, MARY ELIZA.....Arlington Heights, Mass.....417 West 118th Street  
 Boston University, A.B., 1896.
- HADLEY, SARAH LOUISE.....South Canterbury, Conn.....53 East 20th Street  
 Wellesley College, A.B., 1896.  
 Columbia University, A.M., 1903.
- HAGEN, BERTHA A.....600 Delamere Place, Flatbush, Brooklyn, N. Y.  
 HAGEN, MARY LOUISE.....213 East 26th Street  
 HALE, FLORENCE MARIA.....Athol, Mass.....1230 Amsterdam Avenue  
 HALL, MARGUERITE LOUISE.....Wayland, Mass.....419 West 118th Street  
 HALLOCK, EULA SCHULTZ.....417 West 118th Street  
 HAMILTON, MARY SCHUYLER.....Elmsford, N. Y.  
 University of New York, Pd.M., 1901.
- HAMMA, HILDEGARDE MATHILDE.....174 West 96th Street...1230 Amsterdam Avenue  
 HANGARTER, ANDREW HENRY.....242 Humboldt Street, Brooklyn, N. Y.  
 Canisius College, A.B., 1904.
- HANSON, ARTHUR TABER.....616 West 180th Street  
 College of the City of New York, A.B., 1898.
- HANSON, DAISY EVELYN.....616 West 180th Street  
 HANSON, MARJORIE DE SPENSER.....454 Manhattan Avenue  
 HARDCASTLE, MARIANNE.....Easton, Md.....1230 Amsterdam Avenue  
 HARDER, ELFRIDA.....1441 Bushwick Avenue, Brooklyn, N. Y.  
 HARMAN, STELLA ROSE.....Warrensburg, Mo.....417 West 118th Street  
 HARRIS, ALICE LOUISE.....Evansville, Ind.....417 West 118th Street  
 HARRIS, REESE HARVEY.....Lewisburg, Pa.....5 West 125th Street  
 Bucknell University, A.B., A.M., 1903.
- HARRISON, (MRS.) GRACE CLERGEN.....509 West 112th Street  
 HART, CLARA AVIS.....240 West 108th Street  
 HART, EDITH LINTON.....516 Liberty Avenue, Brooklyn, N. Y.  
 HASBROUCK, JANE DUBOIS.....New Paltz, N. Y.....1230 Amsterdam Avenue  
 HASBROUCK, MARTIN.....Paterson, N. J.  
 HASKELL (MRS.), JULIANA.....135 West 90th Street  
 Columbia University, A.B., 1904.
- HASKELL, MARION ALEXANDER.....Savannah, Ga.....1230 Amsterdam Avenue  
 HATCH, HAMLIN BROOKES.....902 West End Avenue  
 HAWKINS, MASON ALBERT.....Baltimore, Md.  
 Harvard University, A.B., 1901.
- HAYES, JOHN RUSSELL.....Swarthmore, Pa.....1230 Amsterdam Avenue  
 Harvard University, A.B., 1888.  
 University of Pennsylvania, LL.B., 1892.

- HAYNES, EMMA LEONORA.....3216 Glenwood Road, Brooklyn, N. Y.  
 HAZLEHURST, EMILY.....Macon, Ga.....430 West 118th Street  
 HEARD, HELEN.....196 Van Houten Street, Paterson, N. J.  
 HEDGERS, ANNA CHARLOTTE.....St. Louis, Mo.....1230 Amsterdam Avenue  
 HEERMANS, JOSEPHINE WOODBURY....Kansas City, Mo.....417 West 118th Street  
 HEIN, HENRY EMMO.....1304 Fulton Avenue  
     College of the City of New York, A.B., 1902.  
 HEINTZE, RICHARD WILLIAM.....Hawthorne, N. Y.....46 Irving Place  
 HENES, EDWIN, JR.....128 East 93d Street  
 HENTZ, GEORGE LOUIS.....136 Ross Street, Brooklyn, N. Y.  
     St. Francis Xavier College, A.B., 1898.  
     New York University, A.M., 1901.  
 HERBERT, JOHN CURTIS.....Starkville, Miss.....519 West 123d Street  
 HERZFELD, MELVIN GUSTAV.....210 West 128th Street  
 HEUERMANN, HELENA FANNY.....101 Beach Street, Stapleton, S. I.  
     Adelphi College, A.B., 1902.  
 HEYDRICK, BENJAMIN.....94 Hamilton Place  
     Harvard University, A.B., 1895.  
 HEYLBUT, JOHANNA.....Bradley Beach, N. J.....71 East 87th Street  
 HEYMANN, SOPHIE.....44 West 95th Street  
 HEYWOOD, CHARLES EDMUND ALFRED....Plainfield, N. J.....209 East 51st Street  
 HILDEBRANT, CLARA MARIE.....786 Lexington Avenue  
 HILGEN, EDWARD FRED.....Chicago, Ill.....1230 Amsterdam Avenue  
     Columbia University, 1904.  
 HILL, HAROLD WILLIAM.....Buffalo, N. Y.....517 Manhattan Avenue  
 HIMES, MARGARET MAY.....Marienville, Pa.....1230 Amsterdam Avenue  
 HINTON, ESTELLE.....Springfield, Mo.....417 West 118th Street  
 HIRSCH, BLANCHE.....1185 Lexington Avenue  
     Columbia University, B.S., 1902.  
 HOCH, EMMA BERTHA.....Bethlehem, Pa.....Park Hill, Yonkers, N. Y.  
 HOFFMAN, ALFRED.....217 Hewes Street, Brooklyn, N. Y.  
     Columbia University, A.B., 1903; A.M., 1904.  
 HOHNBERG, GUSTAVE EDWARD.....Peekskill, N. Y.  
 HOLBERT, HARRY HURD.....Church Street, Kingsbridge, N. Y. City.  
 HOLLANDER, EDWARD.....178 East 72d Street  
     College of the City of New York, A.B., 1896.  
     New York University, LL.B., 1903.  
 HOLLIDAY, EDGAR PERCY.....45 Brevoort Place, Brooklyn, N. Y.  
 HOLLOWAY, WILLIAM JAMES.....Baltimore, Md.....1230 Amsterdam Avenue  
 HOLMQUIST, GUSTAVE SEBASTIAN.....176 West 87th Street  
 HOLT, EVERETT DEFOREST.....Stamford, Conn.....1230 Amsterdam Avenue  
     Amherst College, A.B., 1897.  
 HOLT, HENRY LANDRINE...Bordentown, N. J....2628 Farragut Road, Brooklyn, N. Y.  
     New York University, B.S., 1891; C.E., 1892.  
 HORNSTEIN, IGNUM OSBORNE.....287A Hart Street, Brooklyn, N. Y.  
 HOUSE, HOMER GARFIELD.....Madison, N. J.  
 HOWARD, JEANNIE COLSTON.....Harrisburg, Pa.....417 West 118th Street  
     Bryn Mawr College, A.B., 1901.  
 HOWELL, ALEXANDER ROBERT.....49 West 89th Street  
 HOYT, AMELIA HUNTINGTON.....Danbury, Conn.....1230 Amsterdam Avenue  
     Wellesley College, A.B., 1896.  
 HOYT, FRANKLIN SHERMAN.....Indianapolis, Ind.  
     Boston University, B.S., 1893.  
 HOYT, J. HERBERT.....Little Falls, N. Y.....79 Lee Avenue, Brooklyn, N. Y.  
 HUBBARD, GUY ANDREW STEPHEN BAILEY.....94 Hamilton Place  
     Trinity College, A.B., 1894.

- HUBBARD, RALPH HUSTACE.....138 West 74th Street  
HUDSON, LULIE LANE.....Macon, Ga.....435 West 123d Street  
HUGGINS, MAY CELIA.....Lindley, N. Y.....1230 Amsterdam Avenue  
HUGHES, HELEN MARV.....Toronto, Canada.....419 West 118th Street  
University of Toronto, A.B., 1900.
- HULSE, EMMA ANTOINETTE.....101 Lawrence Street  
Normal College, N. Y. City, A.B., 1894.
- HUMPHREYS, EDWIN WILLIAM.....2155 Bathgate Avenue  
College of the City of New York, A.B., 1903.
- HUNGERFORD, ALMA FLOY.....Mt. Pleasant, Mich.....1230 Amsterdam Avenue  
HUNT, MARY BATES.....Brockton, Mass.....1230 Amsterdam Avenue  
HUNTINGTON, WILLIAM CHAPIN.....Elizabeth, N. J.  
HUNTING, ELLA.....Hartford, Conn.....1230 Amsterdam Avenue  
HURLBURT MARY FRELINGHUYSEN.....Bloomfield, N. J.  
Wellesley College, B.S., 1887.
- HUSSEY, KATHARINE LOENTZA.....Hartford, Conn.....520 West 123d Street  
HUTCHINS, MYRTLE...Highland Park, Conn...179 Emerson Place, Brooklyn, N. Y.  
HUTCHINSON, MINNIE LOUISE...98 Hancock St., Brooklyn, N. Y...417 West 118th Street  
ILLICH, LOUIS LUKE.....Briggs St., Williamsbridge, N. Y.  
College of the City of New York, A.B., 1903.
- IMRIE, ISABELLE.....Bronxville, N. Y.  
IRON, STANLEY EMANUEL.....Y. M. C. A., West Side Branch, 57th Street  
IRVING, SYLVIA.....15B West 106th Street  
IYENGAR, SRIRANGAM DESIKACHAR SHESHADRY.....355 West 119th Street  
Madras University, A.B., 1897; F.L., 1900.
- JACOBUS, GEORGE RICHARD.....Yonkers, N. Y.  
Columbia University, A.B., 1898.
- JAMES, CLARA CHANEY.....Oshkosh, Wis.....600 West 125th Street  
JAMES, MARIE CECILIA.....Washington, D. C.....21 West 135th Street  
JAMESON, CHARLES BARING.....47 West 119th Street  
College of the City of New York, A.B., 1896.
- JAMIESON, CHARLOTTE MURDOCH.....Baltimore, Md.....1230 Amsterdam Avenue  
JOHNSON, EDNA M.....Baltimore, Md.....1230 Amsterdam Avenue  
JOHNSON, ESTELLA MAUDE.....Glenfield, N. Y.....1230 Amsterdam Avenue  
Cornell University, A.B., 1895.
- JONES, ELIZABETH PLANKINTON.....P. O. Box 32, Woodside, N. Y.  
Normal College, New York City, 1903.
- JONES, MARGARET ELIZABETH.....Middletown, Conn.....1230 Amsterdam Avenue  
Wesleyan University, Ph.B., 1899; M.S., 1900.
- JONES, OLIVIA MARY.....66 East 86th Street  
JONES, REBEKAH TOMPKINS.....White Plains, N. Y.  
KARNER, MARY LOUISA.....Plainfield, N. J.  
KEAT (MRS.) MAUD ZEAMER.....Carlisle, Pa.....1230 Amsterdam Avenue  
Dickinson College, A.B., 1894; A.M., 1896.
- KEATING, WILLIAM ALPHONSO.....East 226th Street  
St. John's College, A.B., 1904.
- KEEFER, HENRIETTA.....West New York, N. J.....314 West 14th Street  
KELLEY, ELIZABETH G.....234 Park Avenue, Paterson, N. J.  
KELLY, ELIZABETH LORETTO.....48 Second Street, Brooklyn, N. Y.  
KELLY, JOSEPH DENNIS.....303 East 18th Street  
St. Francis Xavier College, A.B., 1904.
- KELLY, JULIA LORETTA.....79 South 9th Street, Brooklyn, N. Y.  
KEMP, CHARLOTTE.....418 West 45th Street  
KENNEDY, BELLE.....Atlanta, Ga.....3136 Broadway  
Claverack College, A.B., 1882.

- KENNEDY, MARY STEWART.....124 West 126th Street  
Adelphi College, A.B., 1901.  
New York University, Pd.D., 1902.  
Columbia University, A.M., 1902.
- KERN, OLIVER BLAINE.....530 West 123d Street  
Franklin and Marshall College, A.B., 1899.
- KESLER, ARCHIE BOWMAN.....213 West 135th Street  
Salt Lake City, Utah.
- KILBORN (MRS.) MARY DEXTER.....91 Winthrop Street, Brooklyn, N. Y.
- KILBY, CLINTON MAURY.....1230 Amsterdam Avenue  
Suffolk, Va., 1896.  
Randolph-Macon College, A.M., 1896.
- KINSAY, REGINALD GEORGE.....520 West 123d Street  
Southampton, England.
- KIRK, WILLIAM PARKER.....38 West 106th Street
- KLABER, WILLIAM.....389 Manhattan Avenue
- KLEES, WILHELMINE JOHANNETTE LUISE.....428 West 57th Street
- KLEIN, LOUIS JULIUS.....130 Cannon Street  
College of the City of New York, A.B., 1903.
- KLINE, IRVIN EUGENE.....Blain, Pa., 1230 Amsterdam Avenue  
Dickinson College, Ph.B., 1901; A.M., 1902.
- KLINE, ROBERT EVERETT PATTISON.....430 West 118th Street  
Ottawa, Kansas.
- KNOWLES, LOUISE.....316 South 4th Avenue, Mt. Vernon, N. Y.
- KNOWLTON, MARY FRANCES.....153 East 62d Street  
Minneapolis, Minn.
- KNOX, NOLA ROWENA.....1230 Amsterdam Avenue  
Westerville, O., 1903.  
Otterbein University, A.B., 1902.
- KOCH, CHARLES DISON.....Philipsburg, Pa.  
Bucknell University, Ph.B., 1898.
- KORETSKY, ABRAHAM.....344 Madison Street
- KORNMANN, ELSIE WILHELMINE.....1028 Park Avenue  
New York University, Pd.M., 1895.
- KOUKOL, ALOIS BOHUSLAV.....347 East 74th Street
- KOVAR, ABRAHAM.....104 West 109th Street  
College of the City of New York, B.S., 1901.  
Columbia University, A.M., 1903.
- KOYT, BERTA ADOLTA.....7 Austin Street, Newark, N. J.
- KRAETZER, EDGAR RAYMOND.....261 West 159th Street
- KREHBIEL, HERMAN VALENTINE.....1186 Madison Avenue
- KREINER, LILLIAN MAY.....62 Oriental Street, Newark, N. J.
- KREUDER, HERMAN ERNST.....62 West 97th Street  
Columbia University, A.B., 1904.
- KRUSE, AMY.....123 Park Avenue, Hoboken, N. J.
- KWEGYIR-AGGREY, JAMES EMMAN KODWO MENSA OTSIWADU HUMAMPUNSAM.....Salisbury, N. C.  
Livingstone College (N. C.), A.B., 1902.
- LAING, MARGARET ROBERTSON.....417 West 118th Street  
Stratford, Ont., Canada.
- LAIRD, ANNIE LEWISA.....1230 Amsterdam Avenue  
Toronto, Canada.
- LANG, ERWIN LOUIS JOSEF EUGENE.....120 West 89th Street
- LANGTHORNE, JENNIE MENGEL.....59 Livingston Street, Brooklyn, N. Y.
- LANSBERRY, LIBBIE.....1230 Amsterdam Avenue  
Philipsburg, Pa.
- LAWTON, ALBERT ROGERS.....Chappaqua, N. Y.  
Swarthmore College, A.B., 1880; A.M., 1885.
- LEAHEY, MAY AGNES.....19 South Oxford Street, Brooklyn, N. Y.
- LEARY, DANIEL, JR.....225 West 120th Street
- LEDGER, MARION ANNA JUDSON.....50 South Oxford Street, Brooklyn, N. Y.
- LEE, CORNELIA EDMOND.....1230 Amsterdam Avenue  
Savannah, Ga.
- LEMAN, MAUDE.....435 West 123d Street  
La Grange, Ga., 1903.  
Wesleyan College, Macon, Ga., A.B., 1903.
- LEMING, EMMA MARGARETHA.....355 East 19th Street



- LESSELBAUM, SAMUEL.....342 Quincy Street, Brooklyn, N. Y.  
College of the City of New York, B.S., 1901.
- LEUCHS, MAXIMILIAN JOHN CHRISTIAN.....628 East 145th Street  
College of the City of New York, A.B., 1903.
- LIPKE JOSEPH.....234 Sixth Street
- LITTLE, ALFRED AESCHIMANN.....Bay Shore, L. I.....57 Green Street
- LITTLE, LILY WADE.....Macon, Ga.....1230 Amsterdam Avenue  
Agnes Scott Institute, B.S., 1897.
- LOEW, FREDERICKA.....10 Amsterdam Avenue  
Normal College, New York City, A.B., 1902.
- LONG, WILLIAM BAYARD.....Hotel Regent, 70th Street and Broadway
- LONGFELLOW, LUCY.....Machias, Maine.....49 West 9th Street
- LOOSE, FRIEDRICH WILHELM.....St. Louis, Mo.....1710 Second Avenue  
Concordia College (Indiana), A.B., 1904.
- LOPER, NINA M.....93 Rutland Road, Brooklyn, N. Y.
- LOPEZ, MINNIE ADELE.....Poughkeepsie, N. Y.
- LOUGHRAN GEORGE ANDREW.....663 East 119th Street
- LUDWIG, AUGUSTUS.....905 Manhattan Avenue, Brooklyn, N. Y.
- LUDWIG, LORETTA.....Providence, R. I.....543 Lenox Avenue  
Brown University, Ph.B., 1900.
- MCADOO, JULIA WORMLEY.....Ardwick, Md.....132 West 32d Street
- MCADOW (MRS.), LILLIAN.....317 West 95th Street
- McAFEE, FRANK WYNNE.....Muskogee, Ind. Ter.....307 East 18th Street  
Park College, A.B., 1902.
- McCALL, CARLETON CARPENTER.....Harrisburg, Pa.....521 West 123d Street
- McCARTHY, ANNA VERONICA.....243 West 70th Street
- McCLELLAND, ANNIE HART.....Newark, N. J.....1230 Amsterdam Avenue
- McCLELLAND, HELENA.....Newark, N. J.....1230 Amsterdam Avenue
- McCLELLAND, THOMAS KNOX, Jr.....Newark, N. J.....1230 Amsterdam Avenue  
University of New York, A.B., 1899; A.M., 1901.
- McCOLLUM, FRED.....203 West 102d Street
- MACCONNELL, GERTRUDE JANET.....3 Miln Street, Cranford, N. J.
- MACCORMAC, PAUL.....540 West 112th Street
- McCRACKEN, HELEN EDITH.....Markle, Pa...51 Bay City Ave., Jersey City, N. J.
- McDILL, GENEVIEVE STILSON.....Stevens Point, Wis.....1230 Amsterdam Avenue  
University of Wisconsin, Ph.B., 1902.
- McDONALD, MARY ISABEL.....408 Manhattan Avenue  
New York University, Pd.M., 1903.
- McDONALD, MILO FRANCIS.....275 Warren Street, Brooklyn, N. Y.
- MACDONALD, ROBERT ALBERT.....Irvington-on-Hudson, N. Y.
- McDOWELL, LAURA ELOISE.....Pen Yan, N. Y.....9 East 46th Street
- McEVOY, ELIZABETH.....2323 Seventh Avenue  
Normal College, N. Y. City, A.B., 1892.
- McEVOY, MICHAEL JOSEPH.....303 Court Street, Brooklyn, N. Y.
- McGEE, ELIZABETH.....Greenville, S. C.....321 St. Nicholas Avenue  
Woman's College, Greenville, S. C., A.B., 1894.
- McGHEE, MARY.....Greenwood, S. C.....321 St. Nicholas Avenue  
Columbia College, Columbia, S. C., A.B., 1887.
- McGILL, FRANKLIN CLARK.....New Wilmington, Pa.....218 West 123d Street  
Washington and Jefferson College, A.B., 1897.
- McGLONE, ELLA FRANCES.....420 St. Nicholas Avenue
- McGOVERN, WILLIAM FRANCIS.....252 West 139th Street
- MACGREGOR, KATE MILLER.....Hillburn, N. Y.....430 West 118th Street
- McINTYRE, MARGARET ALLEN.....Pensacola, Fla.....435 West 123d Street

- McKILLOP, MARGARET.....163 India Street, Brooklyn, N. Y.  
 McKINLEY, JAMES GORDON.....502 West 145th Street  
 McKINLEY, VIRGIL PARKS.....Troy, Ala.....519 West 123d Street  
 McKINSTRY, GRACE.....Fredonia, N. Y.  
 Columbia University, B.S., 1903.
- McLANE, RAYMOND.....Jacksonville, Fla.....1230 Amsterdam Avenue  
 McLAUGHLIN, LEO.....254 West 136th Street  
 St. Francis Xavier College, A.B., 1895.  
 Columbia University, LL.B., 1898; A.M., 1903.
- McLAUGHLIN, MARY JOSEPHINE.....Albany, N. Y.....1230 Amsterdam Avenue  
 McLAUGHLIN, PIERINA.....254 West 136th Street  
 MACNALL, SARA BLANCHE.....Ingram, Pa.....1230 Amsterdam Avenue  
 MACNARY, EGBERT EUGENE.....1345 Amsterdam Avenue  
 Teachers College, Manual Training Diploma, 1903.
- McNAUGHTEN, LENA L.....Columbus, O.....1230 Amsterdam Avenue  
 McNULTY, ANNA AUGUSTA.....348 West 19th Street  
 MACQUARRIE, THOMAS WILLIAM.....Superior, Wis.....1230 Amsterdam Avenue  
 McQUILLAND, GEORGE THOMAS.....  
 College of the City of New York, A.B., 1900.  
 New York Law School, LL.B., 1904.
- MADDOCK, CATHERINE LORETTO.....439 West 123d Street  
 MALLALIEN, WILLARD CONVERSE.....90 St. Marks Avenue, Brooklyn, N. Y.  
 MALONE, ROSE VERONICA.....138 East 54th Street  
 MANGAM, EMILY ANNA.....914 Hancock Street, Brooklyn, N. Y.  
 MANN, ALMA.....Indianapolis, Ind.....1230 Amsterdam Avenue  
 MANNING, JOHN THOMAS.....2092 Washington Avenue  
 Manhattan College, A.B., 1893.  
 New York Law School, LL.B., 1897.
- MARKS, MABEL ANNA.....1 Fairview Place, New Rochelle, N. Y.  
 MARKS, ROSA ADELAIDE.....Richmond, Va.....1230 Amsterdam Avenue  
 MARSHALL, ISABELLA WEST.....Lexington, Ky.....71 West 49th Street  
 Kentucky State College, A.B., 1903.
- MASON, KATE JULIETTE.....Cleveland, Ohio.....1230 Amsterdam Avenue  
 MASON, LUCIUS JULIUS.....224 West Lincoln Avenue, Mt. Vernon, N. Y.  
 Dartmouth College, B.L., 1893.  
 Columbia University, M.D., 1900.
- MEADOWCROFT, ABBIE JANE.....Haverhill, Mass.....417 West 118th Street  
 MEAGHER, FRANK LEO.....Kingston, N. Y.....1230 Amsterdam Avenue  
 MEHRHOF, EDITH.....Ridgefield, Park, N. J.  
 MENDELSON, SAMUEL.....61 East 123d Street  
 MEUSHAW, ANNIE CATHERINE.....Baltimore, Md.....1230 Amsterdam Avenue  
 MERINGTON, RUTH.....526 East 143d Street  
 MESTRE, HAROLD.....303 West 84th Street  
 MEYER, ROSA LEE.....Baltimore, Md.....1230 Amsterdam Avenue  
 MICHAEL, GEORGE WASHINGTON.....182 West End Avenue  
 College of the City of New York, B.S., 1897.
- MILLER, ALICE ETTA.....Port Deposit, Md.....136 East 17th Street  
 MILLER, CHARLES ALLISON.....2394 Seventh Avenue  
 Wesleyan University, Ph.B., 1892; M.S., 1893.
- MILLER, CICELY.....62 West 93d Street  
 MILLER, ELMER CRAVER.....Glen Ridge, N. J.  
 MILLER, JOHN.....301 West 109th Street  
 MILLER, KATE REED.....411 Monroe Street, Brooklyn, N. Y.  
 MILLER, WILLIAM AUGUSTINE.....Matawan, N. J.....251 Tompkins Avenue  
 Brooklyn, N. Y.
- MILLER, WILLIAM DATES.....Moravia, N. Y.....110 West 109th Street  
 MILLINGTON, CLARA.....Brooklyn, N. Y.....1230 Amsterdam Avenue

- MILLS, WALTER SANDS.....324 West 89th Street  
New York Homeopathic College and Hospital, M.D., 1889.
- MILNOR, GARDNER BRUCE.....Muncy, Pa.....528 West 123d Street  
Lafayette College, A.B., 1897; A.M., 1900.
- MINER, MAUDE EMMA....Richmond Hill, L. I., N. Y.....1230 Amsterdam Avenue  
Smith College, A.B., 1901.
- MISCHLICH, ADOLPH.....108 East 71st Street  
College of the City of New York, B.S., 1879.
- MISHKIN VICTOR.....79 Clinton Street
- MITCHELL, JAMES MACDONALD...Flushing, L. I., N. Y.....1230 Amsterdam Avenue  
Columbia University, A.B., 1895.
- MITCHELL, MARY ELIZA.....1230 Amsterdam Avenue
- MOCKRIDGE, RALPH WHITNEY.....817 Carnegie Hall
- MOLLOY, EDWARD FITZGERALD.....110 West 14th Street  
St. Francis Xavier College, A.B., A.M., 1886.
- MONTELL, ELIZABETH.....Baltimore, Md.....1230 Amsterdam Avenue
- MONTGOMERY (MRS.) FRANCES MCARTHUR..Gaffney, S. C....1230 Amsterdam Avenue
- MOORE, SIDNEY HOWARD.....36 West 131st Street
- MORAN, ANTHONY THOMAS.....210 West 82d Street
- MOREY, JAMES W.....Lakewood, N. J.....34 West 32d Street  
Hamilton College, A.B., 1879; A.M., 1884.
- MORRISON, CHARLES EDWARD.....131 Hamilton Place  
College of the City of New York, B.S., 1897.  
Columbia University, A.M., C.E., 1901.
- MORRISON, MARGARET EL DORA.....Marienville, Pa.....1230 Amsterdam Avenue
- MORRISON, MARY RATHBONE.....124 West 28th Street  
Columbia University, A.B., 1901.
- MORROW, ELEANOR ALATHA.....Allegheny City, Pa.....1230 Amsterdam Avenue
- MOSES, JOSEPH.....100 East 7th Street  
University of Cincinnati, A.B., 1894.
- MOWRY, GRACE ELIZA.....San Juan, Puerto Rico.....1230 Amsterdam Avenue
- MULLEN, KATHARINE VERONICA..Wappingers Falls, N. Y....1230 Amsterdam Avenue
- MULLEN, LORING BLANCHARD.....521 West 152d Street  
University of Wooster, Ph.D., 1898.
- MULLER, FREDERICK.....1108 Franklin Avenue
- MULLINER, SARAH.....432 Pearl Street, Camden, N. J.
- MUNROE, OLIVIA..712 Eighth Avenue, Brooklyn, N. Y.....1230 Amsterdam Avenue
- MUNSON, LUCY JANE.....Miller School, Va.....415 West 118th Street
- MURPHY, ANNA.....Randall's Island, N. Y. City
- MURRAY, JENNIE ERSKINE.....81 West 127th Street
- NEAL, ORRIE WARREN.....Portland, Me.....526 West 123d Street
- NEAL, SALLY SMITH.....Reisterstown, Md.....17 West 96th Street
- NELSON, HENRY.....Highland Falls, N. Y.....242 West 113th Street
- NESBIT, MARGARET OTIS.....Yonkers, N. Y.....1161 Amsterdam Avenue
- NEUGASS, SOLOMON.....257 West 132d Street  
Columbia University, Met.E., 1904.
- NEW, CHARLES FREDERICK.....Indianapolis, Ind.....113 West 106th Street  
Western University, M.D., 1894.
- NEWCOMER, HARVEY.....344 Manhattan Avenue  
Franklin and Marshall College, A.B., 1892; A.M., 1895.
- NEWMAN, CHARLES AUGUSTUS PAUL.....1958 Madison Avenue  
College of the City of New York, A.B., 1900.  
Columbia University, M.D., 1902.
- NEWMAN, MORRIS.....47 Amboy Street, Brooklyn, N. Y.  
College of the City of New York, A.B., 1901.
- NICHOLAS, EMILY.....37 Morningside Avenue

- NICHOLS, FRED RICHARDSON.....Chicago, Ill.....524 West 123d Street  
 NIELSEN, KJERSTEN.....Poughkeepsie, N. Y.....1230 Amsterdam Avenue  
 NORTH, MARGARET FLORIDE.....Buffalo, N. Y.....1230 Amsterdam Avenue  
 NOYES (Mrs.) ANNA GANSMANN.....426 West 124th Street  
     Columbia University, Manual Training Diploma, 1901.  
 NOYES, ERNEST CLAPP.....417 West 118th Street  
     Yale University, A.B., 1898.  
     Harvard University, A.M., 1900.  
 NOYES, WILLIAM.....426 West 124th Street  
     Amherst College, A.B., 1884.  
 O'BRIEN, CATHERINE LORETTO.....247 Marcy Avenue, Brooklyn, N. Y.  
     New York University, Pd.M., 1891.  
 O'BRIEN, MARY ELLEN.....247 Marcy Avenue, Brooklyn, N. Y.  
 O'BRIN, SARAH REDEMPA.....Springfield, Mass.....1230 Amsterdam Avenue  
 O'CONNOR, EDWARD FRANCIS.....473 East 150th Street  
     College of the City of New York, B.S., 1896.  
 O'CONNOR, DANIEL JOSEPH, Jr.....256 West 135th Street  
     St. Francis Xavier College, A.B., 1903.  
 ODELL, JEAN INGELOW.....Newark, N. J.  
 O'DONNELL, CATHARINE AGNES.....317 Bergen Street, Brooklyn, N. Y.  
 O'DONNELL, MARY GERTRUDE.....421 Union Street, Brooklyn, N. Y.  
 O'GERAN, ANNIE SUSAN.....Oswego, N. Y.....415 West 118th Street  
 OLMSTEAD, FLORENCE.....Savannah, Ga.....247 West 103d Street  
 OLSON, DAVID.....Stevens Point, Wis.....505 West 124th Street  
     University of Michigan, A.B., 1902.  
 OLYPHANT, ROBERT MORRISON, Jr.....16 East 52d Street  
 O'NEILL, ANNIE JANE.....144 Oakland Street, Brooklyn, N. Y.  
 O'REGAN, JAMES JOSEPH.....164 East 80th Street  
     St. Francis Xavier College, A.B., 1895.  
 ORR, ELLA JANE.....433 West 147th Street  
 OVERBEEK, JOHN BAGOT.....Sea Point, Cape Town, South Africa...530 West 123d Street  
     South African College, Cape Town, Africa, A.B., 1902.  
 PAGE, VIRGINIA BARTON.....Baltimore, Md.  
 PALEN, LOUIS ELLSWORTH.....New Paltz, N. Y.....2066 Fifth Avenue  
 PARKE, EDWIN VAN BLARCOM.....181 Twelfth Avenue, Paterson, N. J.  
 PARKER, MARGARET BANKS.....33 West 130th Street.....1230 Amsterdam Avenue  
 PATTERSON, ANNIE LOUISE.....105 Ross Street, Brooklyn, N. Y.  
 PAYNE, FANNY URSULA.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 PEAL, AMELIA ELIZABETH.....43 Ingraham Place, Newark, N. J.  
 PEARSE, CHARLES ALLEN.....21 West 120th Street  
 PERRY, RACHEL CRAIG.....414 West 124th Street  
 PESHKIN, HARRY CHARLES.....128 Chrystie Street  
 PETER, GEORGE WILLIAM.....825 East 161st Street  
 PHYFE, MARTHA.....611 Willoughby Avenue, Brooklyn, N. Y.  
 PIERSON, HARRY.....Phillipsburg, N. J.....Ridgefield Park, N. J.  
     Lebanon University, Ohio A.B., 1900.  
 POAPST, LYDIA ANN.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 POCOCK, CECIL.....Bayonne, N. J.  
 POPE, MATIBEL.....Macon, Ga.....1230 Amsterdam Avenue  
     Wesleyan College, Macon, Ga., A.B., 1902.  
 POST, ELIZABETH SMITH.....Woodside, L. I., N. Y.  
 POTTER, MAR LOIS.....Beaver Falls, Pa.....Grantwood-on-Hudson, N. J.  
 POUNDING, ELOISE.....East Hampton, N. Y.....1230 Amsterdam Avenue  
 POWER, EFFIE LOUISE.....Glenville, Ohio.....1230 Amsterdam Avenue  
 PRATT, CAROLINE.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 PRATT, CLARA EMILIE.....251 West 91st Street



- PRATT, SARAH MARIE.....Schenectady, N. Y.....1230 Amsterdam Avenue  
Smith College, A.B., 1894.
- PRAY, KATHARINE R.....Stevens Point, Wis.....419 West 118th Street
- PREW, ELIZABETH MARY.....202 West 118th Street
- PRICE, ELLA.....Allegheny, Pa.....1230 Amsterdam Avenue  
Blairsville College, A.B., 1902.
- PRICE, KATHARINE WHITESSELL.....Allegheny, Pa.....1230 Amsterdam Avenue
- PROCTOR, ROBERT HUNTINGTON.....Corona, N. Y.....557 West 124th Street  
Cooper Institute, B.S., 1904.
- PROKESCH, SOLOMON ZUSCHA.....252 West 129th Street  
New York University, A.B., 1900.  
Columbia University, A.M., 1901.
- PUTNAM, EDITH CLARE.....Worcester, Mass.....1230 Amsterdam Avenue  
Woman's College, Baltimore, Md., A.B., 1900.
- PLYLE, WILLARD R.....Bedford Park, N. Y. City  
University of Michigan, M.S., 1894.
- QUEZADA, CECIL THOMAS.....Costa Rica, C. A.....365 Manhattan Avenue
- QUIMBY, ERNEST SCOTT.....123 West 121st Street  
Wesleyan University, A.B., 1896.
- RABENORT, WILLIAM.....West 97th Street and Riverside Drive
- RAINEY, ANNIE.....109 West 88th Street
- RAINEY, WILLIAM McCLEAN.....3136 Broadway  
College of the City of New York, B.S., 1891.
- RALLS, MARY CALVERT.....Kansas City, Mo.....Fort Jay, Governor's Island, N. Y.
- RALPH, PAUL JUSTUS.....2881 Broadway  
Princeton University, C.E., 1903.
- RATTNER, CHARLES GEORGE.....79 East Broadway
- RAYMOND, DANIEL V.....New Brighton, N. Y. City  
New York Law School, LL.B., 1901.  
New York University, LL.M., 1903.
- RAYNER, IDA LOUISE.....5 West 135th Street
- REARDON, MARK SYLVESTER, 3d.....Brooklyn, N. Y.....115 Broadway  
New York Law School, LL.B., 1898; LL.M., 1902.
- RECORD, JAMES FRANKLIN.....Pikeville, Ky.....520 West 123d Street  
Grove City College, A.M., 1904.
- REILLY, KATHARINE ALOYSIA.....55 West 47th Street
- REININGER, WINIFRED BERTHA.....263 West 130th Street
- REJALL, ALFRED ERNST.....54 Tompkins Place, Brooklyn, N. Y.
- REMY, ALFRED.....203 West 131st Street  
College of the City of New York, A.B., 1890.
- RHAME, JOHN FOOTE.....Wantagh, N. Y.
- RHOAD, EDWARD JOSHUA.....Bath, Pa.....26 West 129th Street  
Lafayette College, A.B., 1901.
- RIBLET, MARY VARIAN.....343 East 68th Street  
Columbia University, B.S., 1903.
- RIBLET, RONALD FRANK.....343 East 68th Street
- RICHMOND, MERRITT OSBORNE, Jr.....81 Ryerson Street, Brooklyn, N. Y.
- RICHMOND, SARAH.....81 Ryerson Street, Brooklyn, N. Y.
- RICKARD, HORACE DURSTON.....Baldwinsville, N. Y.....69 Convent Avenue
- RIDDLE, GEORGE WILLIAM.....627 West 115th Street
- RILEY, MARIETTA.....1652 Nostrand Avenue
- RINALDO, HENRIETTA.....69 East 93d Street
- RITTER, ALICE EMILY BORGELDT.....466 East 25th Street, Brooklyn, N. Y.  
Adelphi College, A.B., 1904.
- ROBESON, ANNA JANET.....Matteawan, N. Y.  
Normal College, Albany, N. Y., Pd.B., 1895.

- ROBINSON, FRANKLIN WHITTMAN.....620 East 135th Street  
College of the City of New York, B.S., 1895.
- ROBINSON, JOSEPH PECK.....178 Main Street, Orange, N. J.
- ROCHESTER, LORETTO MARIE.....845 Lexington Avenue  
New York University, Pd.D., 1902.
- RODMAN, HENRIETTA.....846 Boulevard, Astoria, N. Y.  
Columbia University, B.S., 1903.
- ROE, FREDERICK WILLIAM.....501 West 120th Street  
Wesleyan University, A.B., 1897.  
Columbia University, A.M., 1904.
- ROSENTHAL, JOEL.....330 East 70th Street
- ROSS, MAURICE.....Portland, Me.....295 13th Street, Brooklyn, N. Y.
- ROYALL, LOUISE.....Indianapolis, Ind.....420A Halsey Street, Brooklyn, N. Y.
- RUBINSTEIN, ABRAHAM.....201 East Broadway
- RUNYON, ALLETTA ROSS.....Millington, N. J.....620 West 148th Street
- RUNYON, LAURA L.....1080 Arlington Avenue, Plainfield, N. J.  
University of Chicago, Ph.B., 1898.
- RUPP, FREDERICK LOUIS.....359 West 34th Street
- RUSSELL, MOSES CHANDLER.....Merrimac, Mass.....1230 Amsterdam Avenue
- RYAN, THOMAS JOSEPH.....133 Franklin Avenue, Brooklyn, N. Y.
- RYDENE, ALMA PAULINE.....457 West 155th Street
- SAHM, MARIE ANTOINETTE.....1116 Putnam Avenue, Brooklyn, N. Y.
- ST. GEORGE, ANNA.....35 Lorillard Place
- SALISBURY, EDNA MARY.....6 East 81st Street
- SANDERCOCK, BERTHA LOUIS.....Ariel, Pa.....1230 Amsterdam Avenue
- SAPIR, EDWARD.....14 East 114th Street
- SAXE, BERNHARD DAVID.....186 Second Avenue  
College of the City of New York, B.S., 1899.  
Columbia University, A.M., 1903.
- SCALLION, JAMES JOSEPH.....2010 Seventh Avenue
- SCHALLER, AMELIA.....1597 Broadway
- SCHMID, ROBERT MAJOR.....25 Beekman Place  
College of the City of New York, B.S., 1902.
- SCHODTS, LILY MARGARET.....133 East 73d Street
- SCHULTZ, CHARLES HENRY.....Hackensack, N. J.
- SCHWANEFUGEL, CHARLES ALBERT.....Long Island City, N. Y.
- SCHWARTJE, CHRISTINE.....440 First Street, Brooklyn, N. Y.
- SCOTT (Mrs.) ADELE COOPER.....606 West 113th Street  
University of Illinois, B.L.S., 1900.
- SCOTT, IZORA.....509 West 112th Street  
Kansas Normal College, A.B., 1887.
- SEAGRAVE, MABEL.....Seattle, Washington.....1230 Amsterdam Avenue
- SEARING, HENRIETTA CASTERLINE.....Dover, N. J.....14 East 16th Street
- SEMPLE, LEWIS BUCKLEY.....825 Marcy Avenue, Brooklyn, N. Y.  
Lehigh University, A.B., 1884; A.M., 1890.  
Princeton University, Ph.D., 1893.
- SEWARD, ELIZABETH KIMBER.....849 St. Nicholas Avenue
- SEWELL, JEANNETTE SHOUNARD.....189 Audubon Avenue  
Normal College, N. Y. City, A.B., 1893.  
New York University, A.M., 1902.
- SEYMOUR, ARTHUR TRUMBULL.....Orange, N. J.....Mt. Vernon, N. Y.  
Cornell University, B.S., 1892.
- SEYMOUR, CARL NELSON.....Westfield, Mass.....5 West 125th Street
- SEYMOUR, JOHN CATES, JR.....622 West 147th Street
- SHAW, ELLA HANNAH.....2710 Decatur Avenue
- SHEEHAN, JOSEPH MATTHEW.....209 Carroll Street, Brooklyn, N. Y.  
Columbia University, A.M., 1904.

- SHELDON, MARY AMELIA.....1 West 127th Street  
 SHERWOOD, LEAH.....257 West 129th Street  
 Toronto University, A.B., 1897.  
 New York University, Pd.M., 1903.
- SHINN, NATALIE IDA.....Pelham Manor, N. Y.  
 SHOSTAC, FRANCES.....132 East 96th Street  
 SHREVE, HELEN HULME.....Glen Cove, L. I., N. Y.....154 East 91st Street  
 SICHER, DUDLEY FRANK.....533 West 149th Street  
 Yale University, A.B., 1904.
- SILLIMAN, FLORENCE ELECTA.....Arlington, N. J.....2002 Fifth Avenue  
 SIME, GEORGE BROWN.....361 West 121st Street  
 Normal College, Albany, N. Y., Pd.B., 1897.
- SIMMONS, LUCRETIA VAN TUYL....Richmondville, N. Y.....145 West 105th Street  
 Cornell University, Ph.B., 1898.
- SIMMONS, WILLIAM MARTIN.....184th Street and Grand Avenue  
 SIMON, ESTELLE VIOLA.....50 East 89th Street  
 SIMONS, LAO GENEVRA.....180 West 88th Street  
 SIMONSON, IDA SOPHIA.....Clear Lake, Iowa.....415 West 118th Street  
 Northwestern University, B.L., 1894.
- SIMPSON, FREDERIC WILLIAM.....189 West 136th Street  
 SIMPSON, STEPHEN GEORGE.....Easton, Pa.....457 West 123d Street  
 Lafayette College, A.M., 1899.
- SIMPSON, WILLIAM JACOB PAGE.....430 West 118th Street  
 SINGER, WILLIAM BERNARD.....652 Third Avenue  
 SMILEY, CAROLINE LANTZ.....Staunton, Va.....  
 Woman's College, Frederick, Md., B.S., 1897.
- SMITH, BEVERLEY ALLAN.....35 Kingsbridge Avenue, Marble Hill, N. Y. City  
 New York University, LL.B., 1897.
- SMITH, CHARLES JAMES.....Pocantico Hills, N. Y.  
 SMITH, ISABEL WILEY.....110 West 104th Street  
 SMITH, MARY KATHARINE.....Elmira, N. Y.....19 West 124th Street  
 Elmira College, A.B., 1895.
- SMITH, OLIVE.....1377 Putnam Avenue, Brooklyn, N. Y.  
 SMITH, WILLIAM PALMER.....Edinboro, Pa.....218 West 123d Street  
 SMITH, WILLIAM THOMAS.....598 11th Street, Brooklyn, N. Y.  
 St. Francis Xavier College, A.B., 1899; A.M., 1900.
- SNEDEKER, CLARENCE FELTER.....Haverstraw, N. Y.  
 SNOW, ELLA MARION.....Brockton, Mass.....1230 Amsterdam Avenue  
 SNYDER, BENTON LOUIS.....143 West 140th Street  
 SOHON, MICHAEL DRUCK.....1344 Chisholm Street  
 Lehigh University, M.S., 1890.  
 Johns Hopkins University, Ph.D., 1896.
- SOMERVILLE (MRS.) MARY WINSTON....Apple Grove, Va.....17 West 96th Street  
 SPENCER, GUY.....Baltimore, Md.  
 SPENCER, JOHN OAKLEY.....Baltimore, Md.....Edgewater, N. J.  
 Illinois Wesleyan University, Ph.B., 1888; Ph.D., 1894.  
 Columbia University, A.M., 1901.
- SPITZ, EDUARD FREDERICK.....265 Kosciusko Street, Brooklyn, N. Y.  
 SPITZER, BENJAMIN.....411 East 88th Street  
 SPOONER, ARTHUR.....68 South 10th Street, Newark, N. J.  
 STAHL, GEORGE FREDERICK.....943 St. Nicholas Avenue  
 College of the City of New York, B.S., 1897.
- STALNAKER, ELIZABETH MATTINGLY..Martinsburg, W. Va....1230 Amsterdam Avenue  
 West Virginia University, A.B., 1902.
- STAMM, CAROLINE LOUISE.....25 North Seventh Avenue, Mount Vernon, N. Y.  
 STARLING, MAUD.....Plymouth, N. H.....1230 Amsterdam Avenue

- STEELE, MARY HOLMES.....Geneva, N. Y.....1230 Amsterdam Avenue  
 STEEVES, MARY JANE.....62 West 130th Street  
 STEIBEL, GEORGE JOSEPH.....34 West 112th Street  
 STEIN, CLARENCE SAMUEL.....292 Manhattan Avenue  
 STEINER, STANLEY HAROLD.....235 West 133d Street  
 STEWART (MRS.) BERTHA EMMA.....Roselle Park, N. J.....521 West 123d Street  
 STILES, HAROLD.....Richwood, Ohio.....402 West 124th Street  
     Kenyon College, Ph.B., 1896; A.M., 1899.  
     Harvard University, A.B., 1903; A.M., 1904.
- STILLMAN, GRACE COOPER.....Adams, N. Y.....1230 Amsterdam Avenue  
 STILLMAN, MARY ALICE.....Boston, Mass.....1230 Amsterdam Avenue  
 STONE, MARY ELIZABETH.....13 Clarke Avenue, Jersey City, N. J.  
 STORM, EMMA MAY.....234 Quincy Street, Brooklyn, N. Y.  
 STOTLAR, ALBERT.....Boston, Mass.....174 St. Nicholas Avenue  
     Boston University, A.B., 1898.
- STRAUCHER, MINERVA AUGUSTA.....Gloversville, N. Y.....1230 Amsterdam Avenue  
 STRAY, ARTHUR THOMAS.....10 Tompkins Avenue, Ossining, N. Y.  
 STRICKLAND, ANNA FRANKLIN.....207 West 109th Street  
     Normal College, N. Y. City, A.B., 1901.
- SULLIVAN, EDWARD WILLIAM.....513 West 145th Street  
 SULLIVAN, JULIE ELLSBEE.....520 West 114th Street  
 SULLIVAN, MARGARET NOONAN.....96 Laidlaw Avenue, Jersey City, N. J.
- SULLIVAN, MARY.....Jackson, Neb.....1230 Amsterdam Avenue  
     University of Nebraska, A.B., 1898; A.M., 1900.
- SULLIVAN, NELLIE LORETTO.....552 East 86th Street  
 SUNDERLAND, BELLE.....Cleveland, Ohio.....1230 Amsterdam Avenue  
 SUTRO, FLORENCE CLINTON (MRS.) THEODORE.....320 West 102d Street  
 SWAINE, CLEMENT CELSUS.....Gordon House, 17th Street and Ninth Avenue  
     Central University, A.B., 1904.
- SWARTZ, CHARLES CHRISTIAN.....South Norwalk, Conn.....413 West 117th Street  
     Yale University, A.B., 1900.  
     Columbia University, E.M., A.M., 1904.
- SWEENEY, HELEN MARIE.....346 West 55th Street  
 SWENSON, CELESTE CASTALIA.....Flushing, N. Y.  
     Columbia University, A.B., 1895.
- SWORTFIGUER, GRACE.....Oneonta, N. Y.....137 East 116th Street  
 SYLVESTER, EMMA.....61 Queens Avenue, Flushing, N. Y.  
     New York University, Pd.M., 1900.
- TAIT, BERTHA.....Cold Spring, N. Y.  
 TAMBLING, CHARLES FINNEY.....Mount Pleasant, Mich.....457 West 123d Street  
     Oberlin College, A.B., 1895.
- TARANTOUS, RICHARD.....424 East 77th Street  
 TASHE, JUNE.....444 East 120th Street  
 TAYLOR, EMMA CORNELIA.....Middletown, N. Y.....47 West 16th Street  
 TAYLOR, PAUL EMMONS.....Southold, L. I., N. Y.  
 TAYLOR, SHELDON.....99 Lee Avenue, Brooklyn, N. Y.  
 TEETER, CHARLES HOWARD.....18th Avenue and East 3d Street, Brooklyn, N. Y.  
     Yale University, A.B., 1898.
- TERREL, BESSIE EMILY.....54 Sterling Place, Brooklyn, N. Y.  
 TERRY, JENNIE VIOLA.....12 Taylor Street, West Brighton, S. I., N. Y.  
 TERRY, RAPHAEL RUFO.....247 West 107th Street  
 TESCHEMACHER, HELEN ANNA.....250 Myrtle Ave., Brooklyn.....1230 Amsterdam Avenue  
 THALLON, GRACE EDITH.....210 West 107th Street  
 THOMAS, ANNA PALFREY.....Portland, Mich.....Cor. 125th St. and Broadway  
 THOMPSON, A. CLARKE.....Worcester, Mass.  
     University of Pennsylvania, B.S., 1892.



- THORNE, NORMAN CAMPBELL.....Central Valley, N. Y.  
Yale University, A.B., 1902; A.M., 1904.
- TICE, WILLIAM GRIFFITH.....327 Pacific Avenue, Jersey City, N. J.
- TILFORD, AVONIA BENSON.....266 West 107th Street
- TOBIN, ALICE M.....Stevenson, Md.....1230 Amsterdam Avenue
- TOLLETT, FRANCES MARIE.....Norwich, N. Y.....521 West 123d Street  
Normal College, Albany, N. Y., Pd.M., 1890.
- TOMBLYN, MARY BEATRICE.....Toronto, Canada.....1230 Amsterdam Avenue
- TOMKIES, CHARLES DOSWELL.....Cameron, Texas.....523 West 124th Street  
Columbia University, A.B., 1903; A.M., 1904.
- TORBORG, GERHARD RUDOLPH.....589 West 145th Street
- TOWERS, JOHN JOSEPH.....186 Calyer Street, Brooklyn, N. Y.  
St. Francis Xavier College, A.B., 1899; A.M., 1900.
- TOWNLEY, GRACE ELENOR.....Mt. Vernon, N. Y.....1230 Amsterdam Avenue
- TOWNSEND, EDWARD BENJAMIN.....414 West 124th Street
- TOWNSEND, JULIA LUCILE.....Orangeburg, S. C.....16 East 115th Street  
Clafin University, A.B., 1902.
- TRIPPLE, ALICE MACADA.....Safe Harbor, Pa.....Jamaica, N. Y.
- TROPP, ALICE.....115 East 115th Street  
Normal College, N. Y. City, A.B., 1902.
- TROWBRIDGE, ANNA BAILEY.....Stoneham, Mass.
- TUPPER, HARRIET AKIN.....201 West 106th Street
- TURNBULL, WILLIAM FYFE.....510 West 124th Street  
Columbia University, A.B., 1903.
- TUTTLE, HORACE BURT.....Euclid, Ohio  
Yale University, Ph.B., 1897.
- TWEEDY, ANDREW MELLICK.....Knickerbocker, Tex.....627 West 115th Street
- UHLIG, WILLIAM.....505 First Street, Brooklyn, N. Y.
- UNTERMYER, IRWIN.....Yonkers, N. Y.....675 Fifth Avenue
- VANABLES, ESTHER MARIE.....Philadelphia, Pa.....419 West 117th Street
- VAN CLEVE, CHRISTINE.....150 Lefferts Place, Brooklyn, N. Y.....1230 Amsterdam Avenue  
Adelphi College, A.B., 1902.
- VAN HOUTEN, RAYMOND SAMUEL.....Paterson, N. J.
- VANKIRK, AGNES E.....Morristown, N. J.....417 West 118th Street
- VAN KIRK, THOMAS GERAN.....Metuchen, N. J.
- VAN METRE, LARA.....Kansas City, Mo.....417 West 118th Street
- VAUGHN, GERTRUDE TURNER.....Wilkesbarre, Pa.....1230 Amsterdam Avenue
- VERY, EDITH.....Hartford, Conn.....1230 Amsterdam Avenue
- VIMONT, LOUISE LÉONIE.....1230 Amsterdam Avenue
- VINCENT, BLANCHE ELIZABETH.....530 West 123d Street
- VINCENT, CHARLOTTE M.....53 East 88th Street
- VOM BAUR, CHARLOTTE MARIE.....18 West 130th Street
- VON RODECK (Mrs.) ANNIE J.....Coney Island, N. Y.
- VORHANG, CORA ELLA.....Denver, Colo.....1230 Amsterdam Avenue
- WACK, CONSTANCE.....Hastings-on-Hudson, N. Y.
- WALKER, EMMA.....Brooklyn, N. Y.....West 170th Street, cor. Edgecomb Road
- WALKER, JENNIE.....Brooklyn, N. Y.....West 170th Street, cor. Edgecomb Road
- WALKER, JOHN SCOTT.....Orange, Va.....1230 Amsterdam Avenue  
University of Virginia, A.M., 1902.
- WALLACE, LUELLE.....Wheeling, W. Va.....1230 Amsterdam Avenue
- WALSH, MARGARET MARY.....67 East 130th Street
- WARD, ADA WESSER.....536 West 114th Street
- WARD, EVERETT, JR.....134 West 70th Street
- WARD, FLEMING.....La Grange, Ga.....414 West 118th Street
- WARD, LULU.....La Grange, Ga.....414 West 118th Street  
La Grange College, A.B., 1872.

- WARDALL, RUTH AIMEE.....Tuscola, Ill.....1230 Amsterdam Avenue  
University of Illinois, A.B., 1903.
- WARDLAW, CHARLES HAMILTON.....Atlanta, Ga.....248 West 129th Street  
Atlanta Baptist College, Atlanta, Ga., A.B., 1902.
- WARNER, ALICE HERPWOOD.....Brooklyn, N. Y.....415 West 118th Street
- WARNER, ELMA LUOLA.....618 Willoughby Avenue, Brooklyn, N. Y.
- WARNER, HELEN ELY.....436 Jefferson Avenue, Brooklyn, N. Y.
- WATSON, ETHEL AGNES.....51 Atlantic Street, Hackensack, N. J.
- WEBSTER, MARY SAMPSON.....Geneva, Ohio.....1230 Amsterdam Avenue
- WEEK, MARTHA G.....Stevens Point, Wis.....419 West 118th Street  
University of Wisconsin, B.S., 1884.
- WEEKS, FLORENCE LOUISE.....154 De Bevoise Avenue, Long Island City, N. Y.
- WEEKS, ZAIDA LESLIE.....46 West 131st Street  
Normal College, N. Y. City, A.B., 1899.
- WEIL, LUCIA.....Grand Concourse, Bedford Park, N. Y. City
- WEISENBERG, MORRIS.....262 Stanton Street  
College of the City of New York, A.B., 1903.
- WEISMAN, JAY JEROME.....120 East 86th Street
- WELLER, BESS SMELZER.....Montour Falls, N. Y.....7 West 129th Street
- WELLS, REBECCA FRANCES.....Kansas City, Mo.....305 West 97th Street
- WENDEL, CARRIE ELIZABETH.....345 13th Street, Brooklyn, N. Y.
- WEST, CLAUDE LORRAINE.....Newark, N. J.....501 West 120th Street
- WEST, HENRY JAMES.....Garnerville, N. Y.....170 West 85th Street  
Columbia University, A.B., 1902.
- WETTIN, EMMA LOUISE.....39 Broad Street, Newark, N. J.  
Columbia University, B.S., 1902.
- WHITE, EDITH.....Wilton, Conn.....32 West 132d Street
- WHITLOCK, LILIAN ISABELLE.....Brooklyn, N. Y.....1230 Amsterdam Avenue
- WHITRIDGE, GRACE B.....St. Paul, Minn.....419 West 118th Street
- WILCOX, HARRIET LESLIE.....Yonkers, N. Y.
- WILCOX, SIDNEY HELMUTH.....438 West 116th Street
- WILCOX, WINIFRED.....Yonkers, N. Y.
- WILBY, NELLIE EVELYN.....215 Main Street, East Orange, N. J.
- WILLIAMS, EDITH MAY.....316 South 4th Avenue, Mount Vernon, N. Y.
- WILLIAMS, EDWARD MATTHEW.....1273 Union Avenue  
New York University, B.C.S., 1902.
- WILLIAMS, EVANGELINE ANNIE.....176 West 86th Street
- WILLIAMS, JOHN HERBERT AMOYL.....176 West 16th Street
- WILLIAMS, ROLAND HUGH.....Remsen, N. Y.....527 West 124th Street  
Wesleyan University, B.S., 1898.
- WILLIS, MARGARET.....Charlotte, N. C.....1230 Amsterdam Avenue  
Elizabeth College, A.B., 1903.
- WILLSON, ALBERT CLARK.....Darien, Conn.
- WILSON, BERTHA.....Wheeling, W. Va.
- WILSON, ELIZABETH HAMILTON.....Bradford, Pa.....268 Arlington Avenue  
Brooklyn, N. Y.
- WILSON, HENRY ERNEST.....370 Halsey Street, Brooklyn, N. Y.  
University of Toronto, A.B., 1892.
- WILSON, JOHN REED.....Paterson, N. J.
- WILSON, MARTHA.....Bradford, Pa.....268 Arlington Avenue, Brooklyn, N. Y.  
Oberlin College, Ph.B., 1894.
- WILSON, MARY JOSEPHINE.....Baltimore, Md.....1230 Amsterdam Avenue
- WILSON, WILLIAM.....149 East 52d Street
- WILSON, WILLIAM HENRY.....365 Pacific Street, Paterson, N. J.
- WINSLOW, ADAH.....Greenville, Ga.....47 West 16th Street

- WINSLOW, MARGARET SARAH.....Brooklyn, N. Y.....419 West 118th Street  
 WINTER, JOHN JOSEPH.....204 Putnam Avenue, Brooklyn, N. Y.  
 WINTERS, THOMAS HOWARD.....Ironton, Ohio.....230 West 97th Street  
 Wesleyan University, Ohio, A.B., 1896.
- WISNER, GEORGE FRANKLIN.....Baltimore, Md.....1230 Amsterdam Avenue  
 St. John's College, Annapolis, Md., B.S., 1901.
- WOOD, ELEANOR FRANCES.....Buffalo, N. Y.  
 WOODWORTH, CARLOS ANDERSON.....Suffern, N. Y.  
 University of Ohio, Pd.B., 1898.
- WOOLF, HENRY.....1809 Lexington Avenue  
 College of the City of New York, B.S., 1895.  
 Columbia University, A.M., 1903.
- WOOSTER, BENJAMIN COOPER.....Ridgewood, N. J.....Paterson, N. J.  
 WORK, NORMAN PORTER.....Yonkers, N. Y.  
 WORTH, WILLIAM ALONZO.....2109 Amsterdam Avenue  
 WOTICKY, CHARLES.....445 East 87th Street  
 WYNNE, KATHARINE VERONICA.....553 Dean Street, Brooklyn, N. Y.  
 YARRINGTON, ADRIAN MONROE.....61 Clifton Place, Brooklyn, N. Y.  
 Cornell University, B.L., 1892.  
 Columbia University, A.M., 1902.
- YOUNG, BARTLETT GOLDEN.....65 Central Park West  
 Yale University, A.B., 1902.
- YOUNG, CHARLES VAN PATTEN.....Williamsport, Pa.....111 West 96th Street  
 Cornell University, A.B., 1899.
- YOUNG, JULIA ELEKTRA LUDLOW.....352 West 120th Street

## SUMMER SESSION

## Faculty of Medicine

- ALDAPE, SALOME GARZA.....26 Cortlandt Street  
 National Medical College, Mexico, M.D., 1904.
- APPLEGATE, EDWARD TAYLOR RIGGS, Jr....Hightstown, N. J.....117 West 63d Street  
 Princeton University, B.S., 1902.
- AUCHINCLOSS, HUGH.....24 East 48th Street  
 Yale University, A.B., 1901.
- BALDWIN, WILLIAM DWIGHT.....Honolulu, Hawaii.....254 West 76th Street  
 Johns Hopkins University, M.D., 1901.
- BARRETT, FREDERICK JAMES.....1167 Dean Street, Brooklyn, N. Y.  
 BOSKOWITZ, GEORGE W.....140 West 71st Street  
 N. Y. Eclectic Medical College, M.D., 1877.
- BOYD, WILLIAM BALLANTINE.....40 Perry Street  
 College of the City of New York, B.S., 1897.
- BULL, CHARLES P., JR.....Plainfield, N. J.  
 CHAMBERLAIN, AIMS READING.....Warwick, N. Y.....45 West 32d Street  
 Yale University, A.B., 1901.
- COLIE, EDWARD MARTIN, JR.....189 Prospect Street, East Orange, N. J.  
 Columbia University, A.B., 1902.
- CORSCADEN, JAMES ALBERT.....Middletown, Conn.....381 Central Park West  
 Wesleyan University, Ph.B., 1902.
- DWIGHT, KIRBY.....31 Mount Morris Park West  
 Princeton University, A.B., 1901.
- EMORY, GEORGE BACHE.....Syracuse, N. Y.....59 West 62d Street  
 Harvard University, A.B., 1902.

- FIASCHI, PIERO.....509 Fifth Avenue  
N. Y. College of Dentistry, D.D.S., 1902.
- FINE, ABRAHAM.....236 Christopher Street, Brooklyn, N. Y.
- FISCHER, HENRY ARCHBOLD.....133 West 122d Street
- GERSTER, JOHN CARL ARPAD.....34 East 75th Street  
Columbia University, A.B., 1902.
- HARBECK, CHARLES JOHN.....306 Lexington Avenue  
Harvard University, A.B., 1900.
- HAYES, PLINY HAROLD.....Lewiston, N. Y.....Yale Club, 30 West 44th Street  
Yale University, A.B., 1900.
- HEINE, JOSEPH.....23 Irving Place
- HOXIE, GEORGE HOWARD.....Lawrence, Kansas.....251 West 54th Street  
Union College, A.B., 1893; A.M., 1896.  
University of Zurich, M.D., 1901.
- KELLER, JACOB ADLAI.....343 West 121st Street
- KRUMWIEDE, CHARLES, Jr.....57 West 84th Street  
Columbia University, A.B., 1900.
- LA ROCQUE, JOSEPH BARNABE.....St. Victoria, Ontario  
Queens University, Kingston, Ont., M.D., 1904.
- LABROSSE, ALBERT.....St. Eugene, Ontario  
Queens University, Kingston, Ont., M.D., 1904.
- LEWIS, HOWARD TAYLOR.....Ashaway, R. I.....21 West 65th Street  
Alfred University, B.S., 1902.
- LINDSAY, GORDON.....207 West 81st Street  
New York College of Pharmacy, Ph.G., 1897.  
Columbia University, B.S., 1901.
- LYON, EDWARD CRANE, Jr.....Caldwell, N. J.  
Princeton University, A.B., 1902.
- MAGRAW, NORRIS CRETE.....Roaring Spring, Ky.  
University of Louisville, M.D., 1894.
- MARTLAND, HARRISON STANFORD.....1138 Broad Street, Newark, N. J.  
Western Maryland College, A.B., 1901.
- MOUNT, WALTER BARCLAY.....East Orange, N. J.....138 West 64th Street  
Princeton University, A.B., 1901.
- NISSelson, MAX.....111 Canal Street
- OPDYKE, CHARLES POMEROY.....728 Ocean Avenue, Jersey City  
N. Y. Homeopathic Medical College, M.D., 1889.
- PAYNE, GUY.....Verona, N. J.  
Bellevue Hospital Medical College, M.D., 1898.
- ROMANO, SALVATORE CRISENZA.....2081 Second Avenue
- ROSENTHAL, JOSEPH.....145 Second Avenue
- ROSSANO, AUGUSTUS THOMAS.....451 East 114th Street
- SAMMIS, JESSE FLEET.....Huntington, N. Y.....36 West 56th Street  
Princeton University, A.B., 1902.
- SCHWEIKART, FREDERICK JAMES.....35 Vernon Avenue, Long Island City, N.Y.
- SHAINÉ, MARKS SOLOMON.....8 East 131st Street  
College of the City of New York, A.B., 1902.
- SHENSTONE, NORMAN STRAHAN.....Toronto, Canada.....38 West 64th Street  
Toronto University, A.B., 1901.
- SMITH, GEORGE MILTON.....253 West 75th Street  
Yale University, A.B., 1901.
- STEVENS, JOSEPH WILLIAM.....49 James Street
- STRAIN, WILLIAM PETER.....28 Guion Street, New Rochelle, N. Y.
- TALBOT, ROBERT SLAUTER.....Petersburg, Va.....131 East 30th Street  
Medical College of Virginia, M.D., 1902.



TOWNSHEND, RAYNHAM.....	New Haven, Conn.....	230 West 75th Street Yale University, Ph.B., 1900.
VOORHEES, HOWARD CROSBY.....	New Brunswick, N. J.....	117 West 63d Street Princeton University, A.B., 1902.
WATERMAN, WHITNEY.....	Greenwich, Conn.....	50 Morningside Avenue Columbia University, M.D., 1904.
WHITE, HENRY DE LA PIERRE.....	179 Eighth Avenue, Brooklyn, N. Y. Columbia University, M.D., 1887.	
WOODRUFF, STANLEY ROGERS.....	Bayonne, N. J. Yale University, M.D., 1897.	
ZIPSER, JACQUES EPHRAIM.....	405 East 84th Street Bellevue Medical College, M.D., 1896.	

SUMMARY

Students in the Summer Session.....	914
Students in the Summer Courses in Medicine.....	51
Students in Summer Courses in other Departments:	
In Geodesy.....	24
" Geology.....	11
" Metallurgy.....	32
" Mining.....	42
" Surveying.....	191
	<hr/> 300
	1265

## EXTENSION TEACHING

### ADMINISTRATIVE BOARD

JAMES EARL RUSSELL, LL.D.,  
*Dean of Teachers College*

ADOLPHE COHN, LL.B., A.M.,  
*Professor of the Romance Languages and Literatures*

FRANKLIN THOMAS BAKER, A.M.,  
*Professor of the English Language and Literature*

HERBERT GARDINER LORD, A.M.,  
*Professor of Philosophy*

FREDERICK HENRY SYKES, Ph.D.,  
*Director of Extension Teaching*

### OFFICERS OF INSTRUCTION

#### PROFESSORS

JOHN FRANCIS WOODHULL, Ph.D.	<i>Physical Science</i>
ALFRED D. F. HAMLIN, A.M.	<i>Architecture</i>
ALFRED J. MOSES, Ph.D.	<i>Mineralogy</i>
ADOLPHE COHN, LL.B., A.M.	<i>Romance Languages and Literatures</i>
ABRAHAM VALENTINE WILLIAMS JACKSON, Ph.D., L.H.D., LL.D.	<i>Indo-Iranian</i>
WILLIAM HALLOCK, Ph.D.	<i>Physics</i>
FRANKLIN THOMAS BAKER, A.M.	<i>English Language and Literature</i>
JOHN BATES CLARK, Ph.D., LL.D.	<i>Political Science</i>
RICHARD ELWOOD DODGE, A.M.	<i>Geography</i>
FRANK MORTON MCMURRY, Ph.D.	<i>Elementary Education</i>
PAUL MONROE, Ph.D.	<i>History of Education</i>
CARLO LEONARDO SPERANZA, A.M.	<i>Italian</i>
FRANCIS ERNEST LLOYD, A.M.	<i>Biology</i>
GONZALEZ LODGE, Ph.D., LL.D.	<i>Latin and Greek</i>
LIVINGSTON FARRAND, A.M., M.D.	<i>Anthropology</i>
HENRY E. CRAMPTON, Ph.D.	<i>Zoölogy</i>
EDWARD LEE THORNDIKE, Ph.D.	<i>Educational Psychology</i>
CHARLES HUBERT FARNSWORTH	<i>Music</i>

DAVID EUGENE SMITH, Ph.D.....	<i>Mathematics</i>
ELIJAH WILLIAM BAGSTER-COLLINS, A.M.....	<i>German</i>
FREDERICK HENRY SYKES, Ph.D.....	<i>English Literature</i>
GEORGE L. MEYLAN.....	<i>Physical Education</i>
HERBERT VAUGHAN ABBOTT, A.B.....	<i>English</i>
WILLIAM ADDISON HERVEY, A.M.....	<i>German</i>
RUDOLF TOMBO, Jr., Ph.D.....	<i>German</i>
BRADLEY STOUGHTON, B.S.....	<i>Metallurgy</i>
LEONARD BEECHER MCWHOOD, A.B.....	<i>Music</i>
JOEL ELIAS SPINGARN, Ph.D.....	<i>Comparative Literature</i>
ARTHUR WESLEY DOW.....	<i>Fine Arts</i>

## INSTRUCTORS

CAROLINE GERALDINE O'GRADY.....	<i>Kindergarten</i>
WILLIAM ROBERT SHEPHERD, Ph.D.....	<i>History</i>
FRANK LEO TUFTS, Ph.D.....	<i>Physics</i>
DANIEL JORDAN, B. ès L., B.Pd....	<i>Romance Languages and Literatures</i>
ARTHUR FRANK JOSEPH REMY, Ph.D.....	<i>German</i>
WILLIAM HORACE NOYES, A.B.....	<i>Manual Training</i>
LOUIS GASPARD MONTÉ.....	<i>Fine Arts</i>
MAUD MARCH.....	<i>Physical Education</i>
NAOMI NORSWORTHY, Ph.D.....	<i>Psychology</i>
CAROLINE CRAWFORD.....	<i>Physical Education</i>

## TUTORS

RUDOLF TOMBO, Sr., Ph.D.....	<i>German</i>
SAMUEL ALFRED MITCHELL, Ph.D.....	<i>Astronomy</i>
GEORGE HERBERT LING, Ph.D.....	<i>Mathematics</i>
HENRY BARGY, B. ès L.....	<i>French</i>
WILHELM ALFRED BRAUN, Ph.D.....	<i>German</i>
RICHARD THAYER HOLBROOK, Ph.D.....	<i>French</i>
ALVIN SAUNDERS JOHNSON, Ph.D.....	<i>Economics</i>
CLAYTON MEEKER HAMILTON, A.M.....	<i>English</i>
ADA WATTERSON, A.M.....	<i>Biology</i>
CLARA BARBARA KIRCHWEY.....	<i>Geography</i>
HENRI MULLER, B. ès L.....	<i>French</i>
PAUL L. HAWORTH, A.M.....	<i>History</i>

## ASSISTANTS

MAY BELLE VAN ARSDALE.....	<i>Physical Science</i>
ALETTA VAN WYCK SCHENCK.....	<i>Domestic Art</i>
CAROLINE LOUISA PENISTON.....	<i>Domestic Art</i>
LAURA BRAINARD WHITEMORE.....	<i>Domestic Science</i>
ELIZA BENTON, Ph.B.....	<i>Domestic Science</i>
HELEN GRAY NOBLE.....	<i>Domestic Art</i>
ELIZABETH SAGE.....	<i>Domestic Art</i>

HELEN MARIAN DAY.....	<i>Domestic Science</i>
ANNA MARIA COOLEY.....	<i>Domestic Art</i>
ALLAN ABBOTT, A.B.....	<i>Geography</i>
LILLA A. NOURSE.....	<i>Fine Arts</i>
LUCY HESS WEISER.....	<i>Manual Training</i>
WENDELL DOUGLAS VOLK.....	<i>Domestic Art</i>
TINA E. LINQUIST.....	<i>Physical Education</i>
MARSHAL FRY.....	<i>Fine Arts</i>
DELLA L. CONGER.....	<i>Physical Education</i>
CHARLES HOLROYD.....	<i>Physical Education</i>
JAMES MURRAY, JR.....	<i>Physical Education</i>
SHIRLEY BARNES.....	<i>Physical Education</i>
ELSIE WENCK.....	<i>Physical Education</i>
JOHN A. DAVIS.....	<i>Physical Education</i>

## LECTURERS

THOMAS WHITNEY SURETTE.....	<i>Music</i>
CLYDE FURST, A.M.....	<i>English Literature</i>
GEORGE PHILIP KRAPP, Ph.D.....	<i>English</i>
RICHARD MORSE HODGE, A.M., D.D.....	<i>Biblical Literature</i>
FRANK WADLEIGH CHANDLER, Ph.D.....	<i>Romance Languages and Literatures</i>
MARI RUEF HOFER.....	<i>Music</i>
CLARK WISSLER, Ph.D.....	<i>Anthropology</i>
CHARLES A. BEARD, Ph.D.....	<i>History</i>
DANIEL GREGORY MASON, A.B.....	<i>Music</i>

## GENERAL STATEMENT

1. Extension Teaching is defined by the Statutes of the University as instruction given by University officers and under the administrative supervision and control of the University, either away from the University buildings or at the University, for the benefit of students not able to attend the regular courses of instruction.

Extension Teaching is under the immediate supervision of an Administrative Board and the Director of Extension Teaching. The relation of Extension Teaching to the other work of the University is subject to the jurisdiction of the University Council.

Extension Teaching facilitates and directs instruction for students not in academic residence by means of various courses of instruction given at special times and places, both at the University and elsewhere. The University thus offers to men and women, especially to those engaged in teaching, who can give only a portion of their time to study, an opportunity to pursue some subjects included in a liberal education and to make progress, if they so desire, towards a diploma in teaching or an academic degree.



2. Subject to the general authority of the University Council, the weight to be attached to attendance upon an Extension course on the part of a student who subsequently makes application to be admitted to candidacy for a degree or diploma is fixed by the appropriate Faculty or Administrative Committee.

### COURSES OF INSTRUCTION

The courses of instruction offered in Extension Teaching are of two kinds:

Credit Courses, *i. e.*, courses that are credited by the Faculties concerned, or by the University Council, towards the fulfilment of the requirements for degrees and diplomas.

Lecture Courses, *i. e.*, short courses of lectures which are not accepted towards the fulfilment of requirements for degrees and diplomas.

For detailed information as to the places and hours for these courses, both at the University and at the several local centres, the qualifications for admission, the regulations for registration, candidacy for degrees and diplomas, attendance and examinations, the fees prescribed, and for a statement of each course offered, see the *Announcement of Extension Teaching 1904-05*, which may be obtained without charge upon application to the Secretary of the University.

### CREDIT COURSES

For 1904-05 Credit courses are offered to extension students as follows:

SUBJECT	NUMBER OF COURSES	SUBJECT	NUMBER OF COURSES
Anthropology . . .	2	Manual Training . . .	3
Architecture . . .	1	Mathematics . . .	5
Biblical Literature . . .	3	Mechanical Engineering . . .	2
Biology . . .	2	Metallurgy . . .	1
Domestic Art . . .	13	Mineralogy . . .	1
Domestic Science . . .	9	Music . . .	8
Education . . .	11	Nature Study . . .	2
English . . .	10	Physical Education . . .	7
Fine Arts . . .	5	Physical Science . . .	1
Geography . . .	3	Physics . . .	2
German . . .	9	Political Science . . .	1
History . . .	7	Psychology . . .	4
Kindergarten . . .	2	Romance Languages . . .	7
Latin . . .	1		

## LECTURE COURSES

For 1904-05 the following lecture courses are offered for delivery in local centres:

SUBJECT	NUMBER OF COURSES	SUBJECT	NUMBER OF COURSES
Anthropology . . .	1	Indo-Iranian . . .	3
Architecture . . .	2	Kindergarten . . .	2
Astronomy . . .	3	Mathematics . . .	2
Biblical Literature . .	1	Metallurgy . . .	1
Biology . . . . .	1	Music . . . . .	11
Comparative Literature	3	Physics . . . . .	4
Domestic Science . .	1	Political Science . .	1
Education . . . . .	3	Psychology . . . . .	2
English . . . . .	19	Romance Languages:	
Fine Arts . . . . .	1	French . . . . .	5
Geography . . . . .	4	Spanish . . . . .	3
German . . . . .	7	Italian . . . . .	1
History . . . . .	5	Zoölogy . . . . .	2

## UNIVERSITY BIBLIOGRAPHY

FOR THE ACADEMIC YEAR ENDING JULY 1, 1904

### I. Official Publications of Columbia University

**Annual Catalogue:** describes the organization of the University, and gives a full statement of courses and facilities for research offered during the current year, lists of officers and students, accounts of fellowships, scholarships, and honors offered and conferred, estimates of expenses, requirements for admission and degrees, and the regulations governing the College and the various Schools of the University: Issued each December. Price, 25 cents.

**Annual Reports of the President and the Treasurer to the Trustees:** issued each November.

**Directory of Officers and Students:** issued each year soon after the opening of the University; contains the names, office hours, and addresses of the officers of the University, and the names and addresses of the students registered up to the time of publication; revised and a second edition printed complete.

**General Catalogue of the Alumni:** issued sexennially; contains the names and addresses of all graduates of the University. The current edition is that of 1900. Price, \$2.00. For sale at the University Press Bookstore and in the office of the Registrar.

**Announcements** of the various Schools of the University are issued in the spring of each year and contain information concerning admission, expenses, courses of instruction to be given during the coming year, and requirements for degrees. They include:

**Announcement of Columbia College,** for the work for men leading to the degree of Bachelor of Arts.

**Announcement of the School of Law,** for the work leading to the degree of Bachelor of Laws.

**Announcement of the College of Physicians and Surgeons,** for the work leading to the degree of Doctor of Medicine.

**Announcement of the College of Pharmacy,** for the work leading to appropriate degrees and certificates.

**Announcement of the Schools of Applied Science,** together with the special announcements of the courses in Mining and Metallurgy, in Chemistry, and in Civil, Electrical, and Mechanical Engineering.

Announcement of the Faculties of Political Science, Philosophy, and Pure Science, for all non-professional advanced work leading to the degrees of Master of Arts and Doctor of Philosophy.

Announcement of Courses in the Fine Arts, including courses of instruction given in the School of Architecture, in the Department of Music, and in the Departments of Fine Arts and Music in Teachers College.

Announcement of the Summer Session.

Announcements of the Summer Courses in Medicine and in Surveying.

Circular of Information as to Entrance Examinations.

Circular of General Information, with views of the University buildings.

Announcement of Student Organizations, Athletic and Other, under the supervision of the Comptroller of Student Organizations.

Announcements of the several divisions of the University are issued in the spring, and contain full information concerning the work of the coming year, or years, in those divisions. These circulars are devoted to Biology; Classical Philology; Geology, Geography, and Mineralogy; History, Economics, and Public Law; Mathematical and Physical Science; Modern Languages and Literatures; Physical Education; Oriental Languages; Philosophy, Psychology, and Anthropology.

Unless otherwise stated, all the publications above named are distributed without charge upon application to the Secretary of Columbia University.

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Publications of Barnard College:

Announcement of Barnard College: contains full information concerning admission, expenses, courses of instruction, and requirements for the degree of Bachelor of Arts.

Report of the Dean: issued yearly.

These publications are distributed without charge upon application to the Secretary of Barnard College.

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Publications of Teachers College:

Announcement of Teachers College: issued annually; contains full information concerning the organization, equipment, and work of this institution, the Department of Education of Columbia University.

Report of the Dean: issued each November.

Special Circulars describing the work of the departments of:

Educational Psychology, History and Philosophy of Education, Educational Administration, Secondary Education, Elementary Education, Physical Education, Kindergarten, Domestic Art, Domestic Science, Fine Arts, Manual Training, Music, and of other departments. Also a special Announcement of Extension Teaching.



These may be obtained without charge upon application to the Secretary of Teachers College.

**Syllabi of Extension Courses**, a list of which may be had by address ing the Director of Extension Teaching, Teachers College.

**Circular of the Horace Mann School**; a school fully equipped with kindergarten, elementary, and secondary classes, maintained by Teachers College as a school of observation.

This circular may be obtained without charge upon application to the Superintendent of the Horace Mann School.

## II. The Columbia University Press

The Columbia University Press was organized with the approval of the Trustees of Columbia College and was incorporated June 8, 1893, for the purpose of promoting the publication of works embodying the results of original research. The Press is a private corporation, related directly to Columbia University by the provisions that its Trustees must always be officers of the University, and that the President of the University shall be the President of the Press.

### Trustees

THE PRESIDENT OF THE UNIVERSITY (*ex-officio*)

WILLIAM H. CARPENTER, *Secretary*

JOHN B. PINE, *Treasurer*

BRANDER MATTHEWS

GEORGE R. CARPENTER

FRANKLIN H. GIDDINGS

T. MITCHELL PRUDDEN

FRANCIS B. CROCKER

HENRY FAIRFIELD OSBORN

HARRY THURSTON PECK

During the year ending July 1, 1904, the Press, through The Macmillan Co., of New York and London, its publishing agents, issued numbers of the following<sup>1</sup>:

Studies in Comparative Literature; Studies in History, Economics, and Public Law; Studies in English; *Columbia University Quarterly* and *Teachers College Record*.

## III. Publications, Contributions, and Serial Studies from the University<sup>2</sup>

**Biological Series.**—Founded in 1892; devoted to the general problems of biology; managing editors, H. F. Osborn and E. B. Wilson; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly, about one volume a year; price per volume (from 300 to 400 pages), \$2.00 to \$3.50.

<sup>1</sup> For previous issues from the Press see the *University Catalogue* for 1899-1900, pages 398-399; 1900-1901, pages 455-456; 1901-1902, pages 439-441; 1902-1903, pages 445-449; 1903-04, pages 439-443; and the full catalogue issued by The Macmillan Co.

<sup>2</sup> For purposes of record and information, it is the aim to publish each year a complete list of the numbers issued in each of these series during the preceding academic year. If no list appears under a given heading, it may be assumed that no numbers were issued.

**Botanical Club, Memoirs of the Torrey.**—Founded in 1889; published by the Club from Columbia University; issued irregularly, about one volume a year; \$3.00 per volume; prices of parts on application.

Vol. XI, No. 1. The North American *Sordariaceæ*. By DAVID GRIFFITHS.—No. 2. The *Ulothricaceæ* and *Chaetophoraceæ* of the United States. By TRACY E. HAZEN.—Vol. XII, No. 1. Flora of New Providence and Andros (Bahama Islands). By ALICE R. NORTHROP.

**Botany, Contributions from the Department of.**—Founded in 1886; devoted to short papers, in part reprints from other periodicals; editor, L. M. Underwood; published by the editor from Columbia University; issued irregularly, but usually one volume a year; price per volume (about 330 pages, 30 plates), \$5.00.

No. 203. Botanical explorations in Georgia during the summer of 1901. By ROLAND M. HARPER (1903).—No. 204. The Department of Botany and its relation to the New York Botanical Garden. By LUCIEN M. UNDERWOOD (1903).—No. 205. A new and cheap form of auxanometer. By F. E. LLOYD (1903).—No. 206. A summary of our present knowledge of the ferns of the Philippines. By LUCIEN M. UNDERWOOD (1903).—No. 207. Exploration of the coastal plain of Georgia during the season of 1902. By ROLAND M. HARPER (1904).—No. 208. The effects of chemical irritation on the respiration of Fungi. By ADA WATTERSON (1904).—No. 209. Studies in *Sisyrinchium*, X. By EUGENE P. BICKNELL (1904).—No. 210. The pollen tube in the *Cucurbitaceæ* and *Rubiaceæ*. By F. E. LLOYD (1904).—No. 211. The daily periodicity of cell division and of elongation in the root of *Allium*. By WILLIAM E. KELLICOTT (1904).—No. 212. The comparative embryology of the *Cucurbitaceæ*. By JOSEPH EDWARD KIRKWOOD (1904).

**Botany, Memoirs of the Department of.**—Founded in 1895; devoted to more extended monographs; editor, L. M. Underwood; published by the editor, from Columbia University; issued irregularly; \$6.00 per volume; list on application.

**Chemistry, Contributions from the Havemeyer Laboratories.**—Founded in 1898; reprints of papers recording research by officers and students in the School of Chemistry; managing editor, C. F. Chandler; published by the editor from Columbia University; issued annually; each volume contains the publications of one year beginning July 1; price on application.

Vol. VI, No. 82. The reduction of lead from litharge in preliminary assays and the advantages of an oxide slag. By E. H. MILLER, E. J. HALL, and M. J. FALK.—No. 83. The influence of atmospheric oxidation upon the composition and analytical constants of fatty oils. By H. C. SHERMAN and M. J. FALK.—No. 84. A process for making available phosphates. By C. H. DEMPWOLF, JR.—No. 85. On the reduction of molybdenum by zinc and the ratio of bismuth to molybdenum in bismuth ammonium molybdate. By E. H. MILLER and HENRY FRANK.—No. 86. 3, 5-bibrom-2-aminobenzoic acid; its nitrile and the synthesis of quinazolines from the latter. By M. T. BOGERT and W. F. HAND.—No. 87. A modification of the Babcock-Blasdale viscosity test for olive oil. By HERBERT ABRAHAM.—No. 88. The viscosity of the soap solution as a factor in oil analysis. By H. C. SHERMAN and HERBERT ABRAHAM.—No. 89. The production of anisic acid by the oxidation of aniseed oil. By M. T. BOGERT and CARL H. ZIEME.—No. 90. The influence of diet, muscular exertion and loss of sleep upon the formation of uric acid in man. By H. C. SHERMAN.—No. 91. The determination of nitrogen in food materials and physiological pro-

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**Comparative Literature, Studies in.**—Founded in 1899; contain results of literary research or criticism by officers or students of the Department of Comparative Literature, or those connected with them in study; editors, J. B. Fletcher and J. E. Spingarn; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly at varying prices. Eight volumes have already been published, and others are in preparation.

**Classical Philology, Studies in.**—Founded in 1902; contain results of original research in the classical languages and literatures; edited by H. T. Peck and E. D. Perry; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly; prices variable.

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**Columbia University Quarterly.**—Continuing, since 1898, the *Bulletin*, founded in 1890; publishes articles on the history, the current activities, and the policy of Columbia, for the information of officers, alumni, and friends of the University; edited by a committee (managing editor, for 1904, Brander Matthews; for 1905, J. H. Robinson); publisher for the Columbia University Press by the New Era Printing Co., Lancaster, Pa.; quarterly (125 pages), with occasional supplements, 30c.; per year, \$1.00.

**Educational Review.**—Founded in 1891; devoted to the study of education in all its forms; containing articles, discussions, book reviews, foreign correspondence, and editorial review of current events; edited by Nicholas Murray Butler; New York: Educational Review Publishing Co.; monthly, except July and August (108 pp.); per year, \$3.00; foreign, \$3.50.

**Journal of Comparative Literature.**—Founded in 1903; devoted to the interests of the study of comparative literature in this country and in Europe; its contributors are scholars of all lands, and contributions are printed in the tongues in which they are written; edited by J. E. Spingarn, and J. B. Fletcher; New York: McClure, Phillips & Co.; quarterly; per year, \$3.00.

- Journal of Geography.**—Devoted to the interests of teachers of geography in elementary, secondary, and normal schools; edited by Richard E. Dodge; published by the *Journal of Geography*, Teachers College, New York; monthly, except July and August (48 pp.), 20c.; per year, \$1.50.
- Journal of Nervous and Mental Disease.**—Founded in 1872; devoted to the study of diseases of the nervous system; managing editor, S. E. Jelliffe; advisory board of editors includes M. A. Starr and F. Peterson; New York: Alliance Press Co.; monthly (80 pp.), 50c.; per year, \$5.00.
- Journal of Philosophy, Psychology, and Scientific Methods.**—Founded in 1904; devoted to short articles, preliminary reports, discussions, abstracts and reviews in the field of scientific philosophy and psychology; edited by Frederick J. E. Woodbridge; New York: The Science Press; bi-weekly (28 pp.), 15c.; per year, \$3.00.
- Medical News.**—Founded in 1843; a weekly journal devoted to advances in medicine and surgery; editor, S. E. Jelliffe; New York: Lea Brothers & Co.; weekly (48 pp.), 10c.; per year \$4.00.
- Nature Study Review.**—Founded in 1904; devoted to the study of elementary nature study in all its forms; editor, Maurice A. Bigelow; published for the editor by the New Era Printing Co., Lancaster, Pa.; bi-monthly, 20c.; per year, \$1.00.
- Political Science Quarterly.**—Founded in 1886; devoted to the study of politics, economics, and public law; publishes annually about 25 leading articles, especially on questions of current interest, and about 130 reviews, and gives a condensed general record of political events; edited by the Faculty of Political Science (managing editor, Munroe Smith); Boston and New York: Ginn & Co.; quarterly (about 190 pp.), 75c.; per year, \$3.00.
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**American Journal of Anatomy.**—Founded in 1901; edited by a board including G. S. Huntington; published in Baltimore; quarterly; per year, \$5.00.

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**American Journal of Physiology.**—Founded in 1898; edited for the American Physiological Society; contains original contributions on purely physiological subjects; seven editors, including F. S. Lee; Boston: Ginn & Co.; monthly; per volume (about 500 pp.), \$5.00.

**Biochemisches Centralblatt.**—Founded in 1902; devoted to the combined interests of Chemistry and Medicine; sub-editors include R. Burton-Opitz; New York, G. E. Stechert; bi-monthly; per year, \$7.00.

**Biological Bulletin.**—Founded in 1899; contains short original contributions; seven editors, including E. B. Wilson.

**Bulletin of the American Mathematical Society.**—Founded in 1891; a historical and critical review of mathematical science, containing also lists of new publications, notes on current events in the mathematical world, and many short original articles; editors, F. N. Cole, D. E. Smith, and others; New York: The Macmillan Co.; monthly, except July and August; per year (about 500 pp.), \$5.00.



**German-American Annals.**—Founded in 1897 as *Americana Germanica*; devoted to the comparative study of the historical, literary, linguistic, educational, and commercial relations of Germany and America; contains original researches, critical articles and reviews; contributing editors include W. H. Carpenter and Calvin Thomas. Philadelphia: German American Historical Society; monthly (about 64 pp.), 25c.; per year, \$3.00.

**Journal of the American Chemical Society.**—Founded in 1878; official journal of the American Chemical Society; devoted to the publication of articles upon recent chemical investigations and similar topics. The board of reviewers of American chemical research includes M. T. Bogert; Easton, Pa.: The Chemical Publishing Co.; monthly, 50c.; per year (about 2000 pp.), \$6.00.

**Journal of Comparative Neurology and Psychology.**—Founded in 1891; devoted to the comparative study of the nervous system; includes original compositions, reviews, and notices; associate editors include O. S. Strong, with collaboration of H. E. Crampton, F. S. Lee, T. H. Morgan, E. L. Thorndike, and others; published at Granville, Ohio; bi-monthly; per year, \$4.00.

**The Journal of Experimental Zoölogy.**—Founded in 1904; contains original contributions on experimental zoölogy, morphology, and physiology; eleven editors, including E. B. Wilson and T. H. Morgan; Baltimore: The Journal of Experimental Zoölogy; quarterly; per year, \$5.00.

**Journal of Morphology.**—Founded in 1887; contains original contributions on purely morphological subjects; seven editors, including E. B. Wilson; Boston: Ginn & Co.; quarterly; per year, \$9.00.

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**Science.**—Founded in 1883; devoted to the advancement of science; edited by J. McK. Cattell, with an editorial committee, including N. L. Britton, H. F. Osborn, R. S. Woodward, and others; New York: The Macmillan Co.; weekly, 15c.; per year (about 2000 pp.), \$5.00.

**Transactions of the American Mathematical Society.**—Founded in 1900; a journal devoted primarily to research in pure and applied mathematics; the official organ of the Society for the publication of important papers read before it; three editors, including T. S. Fiske; New York: The Macmillan Co.; quarterly; per year (about 500 pp.), \$5.00.

## V. Student Publications at Columbia

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- The Columbia Law Review.**—Founded in 1901; devoted to the publication of legal articles and book reviews by writers of recognized authority, and comment upon recent cases by the editors; conducted by a board of editors, averaging sixteen in number; monthly, November to June; (70 pp.); per copy, 30c.; per year, \$2.00.
- The Columbia Monthly.**—Founded in 1903, by the combination of the Columbia Literary Monthly, founded in 1893, and Morningside, founded in 1896; an illustrated magazine, devoted both to articles on Columbia University, of historical and of immediate interest and to stories, verse, essays, editorials, and book reviews; edited by a board, consisting of college undergraduates and a Barnard representative; monthly, November to June, per year, \$1.00.
- The Columbian.**—The annual; a bound illustrated volume, containing statistics of athletics, fraternity membership, class achievements, and other valuable information concerning student life in the University for the year just past; published the week before Christmas by a board of twelve editors from the junior class, six elected from Columbia College and six from the Schools of Applied Science. The fifteenth volume was published by the class of 1905, at \$1.50.
- The Columbia Spectator.**—Founded in 1877; published daily, except Sunday, during the college year; edited by a managing board of five, assisted by a board of six editors and from twelve to twenty-five associate editors; per copy, 3c.; per year, \$4.00.
- The Mortarboard.**—Founded in 1897; an annual corresponding to the *Columbian*, but more literary in character, including, besides the history of the junior class, poems, stories, and sketches, and other reading matter; published early in the second term by a board of about eight, elected from the junior class of Barnard College; price, \$1.00.
- The Senior Class-Book.**—A book privately printed by the senior class of Columbia College, through an editorial board, and distributed on class-day. Revived by the class of 1899 and continued by the succeeding classes, including pictures and autobiographies of the members, letters from the faculty, and the class-day speeches.
- The Teachers College Bulletin.**—Founded in 1901; a four-page sheet, issued weekly, containing Teachers College news; per copy 5c.; per year, \$1.00 (by mail, \$1.50).

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MARY KATHRYN FROTHINGHAM	RUTH MARJORIE STERN
DORIS PAULA GALLERT	MARGARET HOLMES STONE
EDITH ADELL GRANGER	BESSIE LOUISE SWAN
EDITH JOAN HAAS	HELEN HENRIETTA TANZER
JULIANA SHIELDS HASKELL	MARTHA ELLEN THOMAS
JANE JEWETT HAWES	BETTY TRIER
AMELIA HAYDOCK	EDITH GIFFORD VAN INGEN
HARRIET NEWELL RAGLAND HILL	ALIDA MARGARET VAN SLYKE
SELMA HELEN HIRSCH	ANNA TALLMAN WARING
HELEN HIRSHBACH	HARRIET ESTELLE WERTS
JESSIE FENTON HOYT	JEANNETTE MAGDALEN WICK
FLORENCE EDDY HUBBARD	SOPHIE YUDELSON

[80]

## Bachelor of Laws

HARRY CHARLES ADAMS	CHRISTOPHER MASON BRADLEY, A.B.
CHARLES SIMPSON AMSEL	JOHN EDSON BRADY
HARRY BENNETT ANDERSON	EDWARD DAVID BROWN, A.B.
HENRY HERBERT BABCOCK, A.B.	EDWARD BRIGHT BRUCE, A.B.
FRANKLYN GEORGE BAMMAN, A.B.	EDWARD THOMAS BRUNER
SAUL JEROME BARON, A.B., A.M.	FRANK WILLIAM BURROWS, B.S.
MEAD VAN ZILE BELDEN, A.B.	MICHAEL HART CARDOZO, Jr., A.B.
HARRY ROBERT BERLINICKE	ROLLO NICHOLS CHAFFEE
HENRY BLOCH	CHARLES CHAMBERS, A.B.
HENRY ARTHUR BLUMENTHAL	FRANCIS COLETY, A.B., Ph.B.
WALTER PERCY BORDWELL, B.L.	CHARLES COLLIS
HJALMAR HJORTH BOYESSEN, II, A.B.	NEWELL KINGSBURY CONE



JEREMIAH JAMES COUGHLAN, A.B., A.M.	HENRY HOLZHEIMER KAUFMAN
HENRY SHREVE CURTIS	CLARENCE DILWORTH KERR, A.B.
MAURICE BESSELL DEAN	ALISON MICHAEL LEDERER, A.B., A.M.
RULIF VAN NUYSE DE NYSE	JOSEPH DAY LEE, A.B., A.M.
GEORGE LAURENCE DONNELLAN, A.B.	HARRY M. LEWY, A.B.
BENJAMIN FRANKLIN DONVAN	JACOB HOPEWELL LINDENBERGER, LL.B.
GOLDTHWAITE HIGGINSON DORR, A.B.	VINCENT STUYVESANT LIPPE
HENRY SIMON DOTTENHEIM, B.S.	JAMES PATTERSON McBAINE, LL.B.
JAMES PINCKNEY DUMAS, A.B.	WARREN JOHN McLAUGHLIN, A.B.
MARTIN JOSEPH EARLEY, Jr.	LYLE EVANS MAHAN, A.B.
WILLIAM M. ERB	HENRY MARX, B.S.
ARTHUR OGDEN ERNST, A.B.	AARON A. MELNIKER
JAMES PORTER FORSYTH	GEORGE MERCER, Jr.
DEWITT FOX	RUTHERFORD BIRCHARD MEYER, A.B.
HENRY W. FREEMAN	BERNARD V. MOORE
FREDERIC JAMES FULLER, A.B.	HENRY MOORE, Jr.
GEORGE GERARD GAASS, Ph.B.	JOSEPH SIMON O'NEIL, A.B.
DAVID GWILIM GEORGE, A.B., A.M.	JOHN FRANK PHILLIPS, A.B.
FREDERICK BENJAMIN GERNERD, A.B., A.M.	THOMAS HASSET RAY, B.S., A.M.
CLAUDE WILLIAM GIBSON, B.S.	ALLAN CHAMBERLAIN REARICK, A.B.
WALTER LESTER GLENNEY, A.B.	LORIN J. ROACH, Ph.B.
WILLIAM VALENTINE GOLDIE	ALVAH JOHNSON RUCKER, A.B.
HARRY ALLEN GORDON, A.B., A.M.	SAMUEL JOHN SAMPLE, A.B.
MORRIS ELIAS GOSSETT, B.S.	FREDERIC CROMWELL SEAMAN
WILLIAM HENRY GRASSE	WALTER NATHAN SELIGSBURG
EDWIN PRESCOTT GROSVENOR, A.B., A.M.	ELWOOD CRONON SMITH
HARRIS HAROLD GUMM, A.B.	HOWARD ALEXANDER SMITH, A.B.
ROBERT HAMILTON HANH	JOHN BOYCE SMITH, Jr., A.B., A.M.
HUBERT ROE HALL, A.B.	JOHN HAVILAND SMITH
JOHN JOSEPH HALPIN, A.B.	RICHARD SHORE SMITH, A.B.
KENNETH BURT HALSTEAD, A.B.	CHARLES CLYDE SPICER, A.B.
EMMET CUTBERT HAMILTON	CARROLL SPRIGG, Ph.B.
MAURICE HANNON	LEWIS SQUIRES, A.B.
HAYDEN WILSON HEAD, B.S.	EDWARD ESTY STOWELL, A.B.
JOHN SHARTLE HERSHEY, A.B.	EMANUEL EMORY STRAUS, A.B.
HENRY HERZ	ROBERT LEFFERTS STREBEIGH, A.B.
PHILIP SAMUEL HILL	ERROLL JAMES LIVINGSTON TABER
JOHN ALFRED HIPPLE	KARL TIMMERMEISTER
HAROLD HIRSCH, A.B.	JOHN CANFIELD TOMLINSON, Jr., A.B.
FRANK IRVING HULL	EARL VOGEL, B.S.
ARTHUR HUTTER	JOHN JOSEPH WALSH, Jr., A.B.
ARTHUR CHARLES KAHN, B.S., A.M.	BENJAMIN PATTERSON WHEAT, Ph.B.
JOHN DANIEL KAHRS, A.B.	WILLIAM EDGAR WITHROW, A.B.

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## Doctor of Medicine

ROBERT ALBERT ADAMS, A.B.	WILLIAM C. BARTRAM
ALBERT HENRY ALLEN, Ph.B.	ALLISTER MacDONALD BELL, A.B.
BENJAMIN GILL ALLEN, A.B.	JOSEPH ZACHARY BIEGELEISEN
ELMER HEMSTED AMES	MICHAEL FRANCIS BLACK, A.B.
HERBERT HAMLIN ARMINGTON, A.B.	WILLIAM BLANCHARD
LOUIS SIMON ARONSON	SAMUEL ABRAM BLAUNER, B.S.
EDWARD MINTURN ASSENHEIMER	WILLIAM HENRY BOESE, A.B.
OSWALD THEODORE AVERY, A.B.	JULIUS BONDY
CLARENCE GARFIELD BANDLER	WALTER FREDERICK BOPP, A.B.
ROBERT LOUIS BANISTER	JAMES FLOYD BOWMAN, A.B.
CYRIL BARNERT	ADOLPH BRAND

- WILLIAM BRANOWER  
 ROBERT HUNTINGTON BREED  
 WATERS FIELD BURROWS, A.B.  
 NORMAN McLEOD CARTER, A.B.  
 ROBERT WILLIAMS CARTER, A.B.  
 THOMAS HARRIS CHERRY  
 FRANK NEWHALL CHESSMAN  
 WILLIAM IRVING CLARK, Jr., A.B.  
 CHARLES DALTON CLEGHORN, B.S.  
 FREDERIC DAN HUNTINGTON COERR, A.B.  
 ALFRED EINSTEIN COHN, A.B.  
 LEO JOHN JOSEPH COMMISKEY  
 EDWARD COOK, A.B.  
 ROBERT ANDERSON COOKE, A.B.  
 JAMES ALBERT COWAN, Ph.B., Ph.D.  
 HENRY AUGUSTUS CRAIG  
 WALTER CONCEMORE CRAMP, A.B.  
 EDWARD CUSSLER  
 MAURICE JACOB DATTELBAUM  
 ISIDOR DAVIDSON, A.B.  
 BERNARD DEKOVEN  
 RICHARD HAGEN DIEFFENBACH  
 JOHN CLARENCE DINGMAN  
 THOMAS ALVA DINGMAN  
 BENJAMIN EDWARD DOLPHIN  
 WARREN JAMES DUCKETT  
 BENJAMIN WILLIAM DUDLEY  
 OWSLEY BENNETT DUNCAN  
 CHARLES EASTMOND, A.B.  
 HERMAN EICHHORN, B.S.  
 LEWIS WEIMAR ELIAS, A.B.  
 ERNEST OLIVER JOSEPH EYTINGE  
 EDWIN CHARLES FASSETT  
 LOUIS FICHTER  
 HARRY FINKELSTEIN  
 ARY FLAKS  
 ISADORE FLATTO  
 DAVID JOSEPH FLYNN, A.B.  
 JAMES VOORHEES FREEMAN, Jr., A.B.  
 DAVID INGHAM FREY  
 JOHN CAMERON GAIN  
 SAMUEL GELLERT  
 AUGUST JOSEPH GHIGLIONE  
 HYMAN GLANZ, A.B.  
 KARL HAROLD GOLDSTONE  
 CLARENCE MINTURN GRAHAM  
 JAMES COWAN GREENWAY, A.B.  
 ALBERT GRUSSNER  
 WILLIAM FRANCIS GUTHERSON, B.S.  
 GORDON DYER HALE, Ph.B.  
 PATRICK JOSEPH PAUL HAMILL, A.B., A.M.  
 JOSEPH CAMPBELL HANCE  
 DANIEL SAYER HARDENBERG, Jr.  
 BURTON SEYMOUR HARRIS  
 ALFRED JOHN HART  
 JOHN DEARBORN HASTIE, A.B.  
 WILLIAM DAVISON HENNEN  
 ALLAN MOORE HERVEY, A.B.  
 GEORGE HUNT HIBLER  
 CLARENCE ALBERT HOLMES, B.S.  
 WILLIAM FREDERICK HOLTHAUSEN  
 PHILIP GARFIELD HOOD  
 HARRY LYMAN HOOKER  
 BENJAMIN HOROWITZ, A.B.  
 PHILIP HOROWITZ  
 EDWARD TAYLOR HULL, B.S.  
 FREDERIC VINAL HUSSEY, Ph.B.  
 LOUIS JACOBS  
 JULIUS JARCHO  
 STEWART LEE JEFFREY  
 DAVID KATZ  
 THOMAS DANIEL KEEGAN  
 HAROLD DENISON KENYON  
 CLEAVELAND CADY KIMBALL, A.B.  
 JACOB SIEGFRIED KRESHOVER  
 HANS EDGAR KUDLICH, A.B.  
 HAROLD WILKINSON LATHROP  
 GEORGE HAINES LATHROPE, A.B.  
 EMANUEL JOSEPH LEAVITT  
 NOEL BLEECKER LEGGETT  
 JULIUS LEVY  
 ELTON GARDINER LITTELL, A.B.  
 WILLIAM HENRY LOHMAN  
 JAMES McMASTER LONG, A.B.  
 FRANK ALEXANDER LORENZO  
 CLAUDE EMMET McNENNEY, A.B.  
 MORGAN THOMAS MCSHEEHY, A.B.  
 JOSEPH DOUGLAS MALCOLM  
 HOWARD HARRIS MASON, A.B.  
 GEORGE JOHN MEHLER, A.B.  
 GUY HERBERT MEYER  
 JULIAN JACQUES MEYER, A.B.  
 LUCIEN LUTTRELL MINER  
 ALFRED DERBY MITTENDORF, A.B.  
 HENRY NICHOLAS MOELLER  
 ALBERT ROWCLIFFE MOFFIT, A.B.  
 ROBERT LOWRY MOORHEAD, Jr.  
 HENRY WILLIAM MORSCH  
 EDWARD JOHN MURPHY, A.B.  
 MAGNUS JACOB MYRES  
 FREDERICK EMIL NEEF, B.S., B.L., M.L.  
 URBANE ALEXANDER NOBLE  
 JOHN CHARLES O'CONNOR  
 CLARENCE RUTHERFORD O'CROWLEY  
 WILLIAM JOSEPH O'LEARY  
 BRACE WHITMAN PADDOCK, A.B.  
 JAMES BOLTON PENTZ  
 JOHN DODGE PETERS, A.B.  
 JAMES TAFT PILCHER, A.B.  
 WILLIAM PINCUS  
 PAUL HENRY RINGER, A.B.  
 ROBERT CORNELIUS ROBINSON, Ph.B.  
 JULIUS TOWNSEND ROSE  
 EDWARD KINGSBURY ROSS Ph.G.  
 WILLIAM HOLMES ROSS  
 EDSON DAVIDGE ROYALL

TRUMAN LAURANCE SAUNDERS, A.B.  
 GEORGE HENRY SCHENCK, Ph.B.  
 KAUFMAN SCHLIVK, B.S.  
 TRAUGOTT JOHN SCHÜCK  
 ARTHUR LEIGHTON SHERMAN, A.B.  
 JOHN CALVIN SILLMAN, A.B.  
 JOSEPH DANIEL SLACK  
 ELLSWORTH JOHNSON SMITH, Ph.B.  
 CHARLES HARRY SPRAGUE  
 CAROL TEFFT STEVENS, B.S.  
 VERNON CHAMPNEY STEWART, A.B.  
 CHARLES KIRTLAND STILLMAN, Ph.B.  
 JOHN BEEKMAN TALMAGE, Jr.  
 ANTONIO TARDITI  
 MAX TASCHMAN, A.B.  
 JOSEPH SIMON THOMAS, A.B.  
 MERRICK DOWDELL THOMAS, B.S.  
 TALCOTT OSTROM VANAMEE, A.B., A.M.  
 JOSEPH VANDENBERG  
 ALBERT VANDER VEER, Jr., A.B.

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HAROLD STEARNS VAUGHAN, D.D.S.  
 JOHN MAXON BROWN WAINWRIGHT  
 CARL WILLIAM WALSER  
 ALBERT HAMILTON WARD  
 EDWIN ST. JOHN WARD, A.B.  
 RALPH FRANCIS WARD  
 WILBUR WARD, A.B.  
 WHITNEY WATERMAN  
 LOUIS WEINSTOCK  
 CLAUD HILL WEIR  
 JAMES ALEXANDER WHEELER  
 WALTER HUMSTONE WHITON  
 SOL WIENER, A.B.  
 FREDERIC HART WILSON  
 FRED WISE  
 LESTER DRUMMOND WISE  
 ISAAC OGDEN WOODRUFF, Jr., A.B.  
 CHARLES WHITEHEAD WOODSON, A.B.  
 SHIRLEY WILMOTTE WYNNE  
 DAVID ZELENKO

### Engineer of Mines

JAMES CARSON AGNEW  
 SIDNEY M. BAMBERGER  
 LEON HOBART BRADY  
 THEODORE ALBERT BURBIDGE  
 CHARLES LOUIS CONSTANT, Jr.  
 WILLIAM WAKEFIELD CORBET  
 OSCAR WILSON ERDAL  
 MILTON HENRY FIES  
 PAUL HENRY HARWOOD  
 JAMES EDWARD HIGGINS  
 EDWARD KNIGHT JUDD, A.B.  
 CARL EDWARD A. V. JULIHN  
 SIDNEY JESSE KIDDER, B.S.  
 CHARLES TAYLOR LAW  
 FREDERICK WARREN LOVEJOY, Jr., A.B.,  
 A.M.  
 EDWIN CORNELIUS LUTHER, C.E.  
 CHARLES WILLIS MACDOUGALL  
 LUCIUS WOLF MAYER

[38]

HARRY CLIFFORD WILMOT

HOWARD RATCLIFFE NORSWORTHY  
 EDWARD FRANKLIN PELTON, B.S.  
 ROGER TROWBRIDGE PELTON  
 JOHN CLARK PICKERING  
 WILLIAM NICHOLAS ROSSBERG  
 FREDERICK SOMMER SCHMIDT, B.S.  
 MARTIN SCHWERIN  
 SHELDON SMILLIE  
 WEBSTER TEMPLE SMITH  
 FRANK JOSEPH STARAL, Jr.  
 HOWARD APPLETON STILLWELL  
 CHARLES CHRISTIAN SWARTZ, A.B.  
 WILLIAM EVARTS TRACY, A.B.  
 FRANCISCO RODRIGUEZ VARELA  
 FRANK WHALLEY WATSON  
 WILMOT EDGAR WHITTIER, A.B.  
 PHILIP WILL, Mech.E.  
 ROBERT YOUNG WILLIAMS, A.B.  
 HARRY THOMAS WILLIS, B.S.

### Civil Engineer

FARRAND NORTHROP BENEDICT  
 ALFRED EDWARD BUDELL  
 ROBERT ANDREW WOOD CARLETON  
 ALFRED ELLSWORTH CARTER  
 ELIHU CUNYNGHAM CHURCH  
 JULES AUGUSTE CELOS  
 WALTER TAUBERT DERLETH  
 HERMAN GOLDBERG, B.S.  
 HERBERT SPENCER HANAU  
 JOHN HAWKESWORTH  
 CLARENCE HELLER

[22]

BORIS ABRAHAM LEVITT  
 GEORGE JOHN LYON, B.S.  
 EDWARD FREDERICK MAISENHOLDER  
 GEORGE FREDERICK MILES  
 JAMES LEO MURPHY  
 LEANDRO JOSÉ RIONDA, Mech.E.  
 CHARLES RICHARD STEIN  
 HENRY STEINDLER, A.B.  
 THOMAS ROBINSON TETLEY, Jr.  
 WILLIAM ROGERS TYLER  
 WILLIAM HENRY YATES

**Electrical Engineer**

WILLIAM PHILIP ABENDROTH  
ALBERT J. ACKER  
DANIEL READ BACON  
MEYER BARNERT  
CHARLES BAUMGARTEN  
SALISBURY MARCUS DAY  
HAROLD SAVERY DEMERITT  
WILLIAM DUDEN  
HENRY HAROLD HIGBIE  
DUNCAN ARGYLE HOLMES  
ISAIAH JARCHO

LEONARD JULIAN LEWINSON  
CHARLES PETER MENGES  
EUGENE JOSEPH REID  
CHARLES FRANK SANGER  
CARL JOSEPH SCHAUS  
CARL ALBERT SCHNEIDER  
FRANKLIN SCHWABACHER  
FREDERICK WILLIAM SERINGHAUS, Jr.  
RAYMOND WESTHORPE SMITH  
CHESTER FRED STRONG, E.E.  
JOHN CHARLES WALTER

GUSTAV FREDERICK WITTIG, B.S.

[23]

**Metallurgical Engineer**

SOLOMON NEUGASS

[1]

**Mechanical Engineer**

LUDWELL BROOKE ALEXANDER  
RICHARD WALTER BERLINER  
LEMUEL CAYALLI BIGLOW  
ALEXANDER BORSODY  
LUIS ALBERTO CARBO  
THOMAS FOWKE COOK  
GRISWOLD DENISON, II  
WILLIAM FERDON GILLIES  
JOHN SERRE GOODRICH  
HARRY ALLEN GRANT

JOHN JACOB HOWELL  
WILLIAM ROWSELL HULBERT  
FRANKLIN MARTIN  
HARRY LILIENTHAL PARR, A.B.  
CARL OSCAR RIEDEL  
CARL THEODORE SCHREIBER  
ROBERT SEDGWICK STANGLAND  
CLIFFORD TOWNSEND SWART  
MORRIS FRANK WEINRICH  
FRIEDRICH OTTO WILLHÖFFT

ROBERT HASBROUCK WYLD

[21]

**Bachelor of Science**

(Course in Chemistry)

WILLIAM NATHAN BERG  
HAROLD NEWTON COX

MILTON J. FALK  
GLENN HUNTINGTON PICKARD

[4]

**Bachelor of Science**

(Course in Architecture)

WILLIAM EDGAR BURTIS  
NATHANIEL CORTLANDT CURTIS, Ph.B.  
RICHARD HENRY DANA, Jr., A.B.  
HENRY WILLIAM FROHNE

ARTHUR LOBO  
HAROLD FAIRFAX PERCY  
WILLIAM HATFIELD SEARS  
JOHN WYNKOOP

[8]

**Bachelor of Science**

(Course in Education)

JAMES EDWIN ADDICOTT  
FRANK WASHINGTON BALLOU  
WILHELMINA CATHERINE BELLER  
MARGARET FLORENTINE BERGER

JOSEPHINE THORNDYKE BERRY, A.B.  
EVA ELIZA BRIGGS  
FRANK ROBERT CAUCH  
ADELE CAZIN



MARY COE CHEDSEY  
 TERESA C. ANNA GENEVIEVE CLARE  
 RACHAEL EVALINE CLOSS  
 MARY DUTCHER  
 HARRIET FOLGER  
 J. FLORENCE GILLILAND  
 ELIZABETH MAUDE HALEY  
 ETHEL ADELINE HOUSE, B.L.  
 JANET SARAH HUNTING  
 MAUDE ALINE HUTTMANN  
 HELEN LOUISE JOHNSON  
 CAROLINE ELIZABETH KEIL  
 ANNA KENNEDY  
 ALICE EUDORA MERRILL  
 TULLA CAROLINE ODENCRANTZ

ANNA MARTHA GERTRUDE PIGNOL  
 GRACE ROSAMOND PREBLE  
 FLORENCE ELIZABETH REID  
 HENRIETTA RODMAN  
 MARY ROGERS  
 RUTH SAWYER  
 NETTIE PICARD SCHWERIN  
 ETTA LUCY SMITH  
 MINNIE LOUISE STEELE  
 CLIFF WINFIELD STONE  
 MARY MAY THOMAS, B.L.  
 JESSIE MAUD TRUBE  
 JUDITH CROMMELIN VER PLANCK  
 HELEN BROMLEY WELSH  
 CHARLOTTE WHITE

ALICE MAY WYANT

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### Teachers College Diplomas

#### Doctor's Diploma in Education

FREDERIC ERNEST FARRINGTON  
 A.B., Harvard University, 1894;  
 A.M., Columbia University, 1902.

[1]

#### Master's Diploma in Education

FREDERICK BANCROFT ABBOTT  
 B.S., College of Emporia, 1900; M.S.,  
 1902.  
 JAMES EDWIN ADDICOTT  
 B.S., Columbia University, 1903.  
 WILLIAM WALTER ANDREW  
 Ph.B., Brown University, 1903.  
 ALFRED HAVELOCK ARMSTRONG  
 A.B., Acadia College, 1896.  
 JOSEPH STITT BIKLÉ  
 A.B., Columbia University, 1903.  
 AMY MAUD BURT  
 Ph.B., University of Vermont, 1900.  
 BERTHA CANN  
 A.B., Oberlin College, 1896.  
 MABEL ADELINE CARPENTER  
 A.B., Radcliffe College, 1902.  
 ANNA MAY CLARK  
 Ph.B., University of Vermont, 1898.  
 ALEXANDER BRAINARD COFFEY  
 A.B., Leland Stanford, Jr., Univer-  
 sity, 1903.  
 JESSE H. COURSAULT  
 A.B., Ohio University, 1893; A.M.,  
 1898; A.M., Harvard University,  
 1900.  
 WILLIAM ALBERT CRANE  
 A.B., Adelphi College, 1903.

PHILIP REDFIELD DEAN  
 A.B., Harvard University, 1896.  
 SOPHIA LYON FAHS (MRS. CHARLES  
 HARVEY FAHS)  
 A.B., Wooster University, 1897.  
 GERALD GORDON  
 A.B., Lafayette College, 1895; A.M.,  
 1898.  
 CHARLES THEODORE GRAWN  
 Pd.M., Michigan State Normal Col-  
 lege, 1897.  
 GEORGE EDWARD MARKER  
 A.B., University of Illinois, 1903.  
 ANGELO PATRI  
 A.B., College of the City of New  
 York, 1897.  
 ROGER CROSSMAN PECK  
 A.B., Yale University, 1900.  
 JULIA ELNORA RICHARDSON  
 B.S., Northwestern University, 1899.  
 LUCIUS KIMBALL RUSSELL  
 B.S., Massachusetts Institute of  
 Technology, 1886.  
 FEIST M. STRAUSS  
 A.B., Western Reserve University,  
 1903.  
 OSCIEOLA ALVIN THAXTON  
 A.B., Mercer University, 1901.

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### Higher Diploma

BIANCA SCHILLER

[1]

## Bachelor's Diploma in Education

For teaching in secondary schools

WILLIAM ANTHONY AERY (History)	THOMAS LESTER HURLEY (History)
LUCY GUILIA ARNAUD (Latin)	MAUDE ALINE HUTTMANN (History)
FRANK WASHINGTON BALLOU (History)	FANNIE JOHNSTON, Ph.B. (English)
ALEXANDER OTTO BECHERT, A.B. (German)	ROSE JOHNSTON, Ph.B. (Mathematics)
MINNIE MARGARET BEIFELD (History)	EDNA BLANCHE JONES, A.B. (History)
MARGARET FLORENTINE BERGER (German)	CAROLINE ELIZABETH KEIL (English)
MINNIE RANDOLPH BOULGER (History)	MARY HELEN KEITH, B.S. (Physical Science)
EVA ELIZA BRIGGS (Mathematics)	ANNA KENNEDY (Latin)
HELEN GERTRUDE BUCK (English)	HILMA LEERS (German)
EDITH BUTTS (Mathematics)	IDA ETHEL LEWIS (Latin)
ADELE CAZIN (Physical Science)	ROSE MARIE MCCORMICK (Latin)
MARY COE CHEDSEY (Biology)	ELIZABETH MCLEAN (Mathematics)
MARGARET LORETTA CHARLES CLAFFY (History)	LIZZETTE MAY METCALFE (Mathematics)
EMILY JOSEPHINE CLARK, A.B., A.M., (Latin)	MILDRED ELSEGOOD MILLER (English)
LAURA SOPHRONIA CLARK, B.S. (Physical Science)	CHARLOTTE ELIZABETH MORGAN (English)
MARY AUGUSTA CLARK, A.B. (Mathematics)	DORA RUSSELL NEVINS (Mathematics)
MABEL GRACE COMPTON (English)	RACHEL EVANS NUTT (English)
SARAH THEODORA CURTIS (Greek)	TULLA CAROLINE ODENCRANTZ (Mathematics)
OLIVE PERCY DAVIS, A.B. (English)	ANNA MARTHA GERTRUDE PIGNOL (German)
MABEL DENTON (Mathematics)	HILDA POPPER (English)
EMMA MULFORD ENRIGHT (Latin)	MARY LOUISE RIX (English)
J. FLORENCE GILLILAND (History)	BAYARD BLACKWELL RODMAN (Physical Science)
CHARLES A. GREEN, A.B. (Physical Science)	JOSEPHINE SEYMOUR (Latin)
ELIZABETH MAUDE HALEY (English, History)	ELINORE RACHEL SHARPLESS, A.B. (Mathematics)
ELSIE HAMMOND, A.B. (Physical Science)	MINNIE LOUISE STEELE (Mathematics, English)
JANE JEWETT HAWES (Latin)	EVELYN SWAN, B.S. (History)
AMELIA HAYDOCK (English)	JOHN AUGUST SWENSON, A.B. (Mathematics)
ETHEL MARGARET HUGHAN (English)	MARTHA ELLEN THOMAS (Latin)
EMELINE KEELER HUNT, A.B. (English)	GRACE LILLIAN UTTER, A.B. (Latin)
MARTHA MARGUERITA HUNT (English)	ALIDA M. VAN SLYKE (German)
[61]	JEANNETTE M. WICK (German)

## Elementary Schools

ADAH APHIA BEATON	ALICE BURROWS PARROTT
FLORENCE LOUISE BUTLER	FLORENCE ELIZABETH REID
ANNA MANSFIELD CLARK	MARY ELIZABETH RICH
RACHAEL EVALINE CLOSS	MARIETTA RILEY
MARY EMMA CONNER	HARRIET ESTELLE ROE
ELIZABETH MAUDE HALEY	CLIFF WINFIELD STONE
MARGARETTE ELIZABETH HOWARD	WALTER ALVIN TICE
JANET SARAH HUNTING	GERTRUDE HUNTINGTON WARE
BELLE LEVENS	HELEN BROMLEY WELSH
JEANNETTE FANNIE LONDON	INDIANA REBECCA WHEALTON
[20]	

## Kindergarten

EDITH BLANCHARD, B.L.	JULIA EMILY PECK, B.L.
GENEVIEVE COONEY	HELEN E. ROBERTS
MILDRED GOMEZ	RUTH SAWYER
M. HELEN HALLOWELL	MARY WEIMER SHERRICK
GRACE AILEEN HARRINGTON	ETTA LUCY SMITH
EMMA BEULAH HAYES, A.B.	HARRIET LILLIAN STEVENS
ETHEL ADELINE HOUSE, B.L.	JESSIE MAUD TRUBE
HARRIETTE MELISSA MILLS	GERTRUDE HUNTINGTON WARE

CHARLOTTE WHITE

[17]

## Domestic Art

LANA BISHOP	MARY AGNES HUBBARD
MARY AIKMAN DUNNING	GRACE ROSAMOND PREBLE

KATHARINE FRENCH STEIGER

[5]

## Domestic Science

MAY DORCAS BENEDICT	HATTIE MAYER
JOSEPHINE THORNDYKE BERRY, A.B.	ALICE EUDORA MERRILL
HARRIET AMELIA BOYER	HELENA MAUDE PINCOMB, B.S.
ROSE HARRIET BRUCKMAN	CLARA ELIZABETH SCHAUFFLER, A.B.
ANNIE FLORENCE BURBANK	LETITIA WILLIS SIMONS, A.B.
TERESA C. ANNA GENEVIEVE CLARE	FLORENCE EUGENIA WELLS
HELEN LOUISE JOHNSON	MARY LOUISE WYMAN

[14]

## Fine Arts

CECILIA FEIGENBAUM	LIDA TULLOCH PRIEST
JOSEPHINE DOUGLAS GUILBERT	ALICE REBEKAH ROBINSON
ALICE INGLIS MYERS	MARY ROGERS
EDITH JANE OAKLEY	MARY AGNES STOCKER

[8]

## Manual Training

LEWIS BIRCH BATTEY	BERTRAM HEDLEY
LOUIS CALDWELL BUTLER	RUTH HUNTINGTON, B.L.
GEORGE FREDERICK BUXTON	ANNIE LINTON
FRANK ROBERT CAUCH	GEORGE AMOS MOORE
MARY VENABLE COX	MARY MAY THOMAS, B.L.
IDA EAGLETON HANSON	FRED CAMPBELL WHITCOMB, B.S.

IRVA MAY WOODRUFF

[13]

## Music

EMILY CATHERINE JESSUP	HARRIETT ESTELLE ROE
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[2]

## Master of Arts

FREDERICK BANCROFT ABBOTT	ALFRED HAVELOCK ARMSTRONG
B.S., College of Emporia, 1900; M.S., 1902.	A.B., Acadia College, 1896.
Essay: A Study of American Secondary Technical Schools.	Essay: The Training of Teachers already in Active Service.
WILLIAM WALTER ANDREW	WILLIAM CALVIN ARNOLD
Ph.B., Brown University, 1903.	A.B., Lebanon Valley College, 1903.
Essay: Present Practice in Physical Education in Certain Prominent Institutions in the United States.	Essay: Ethnic Composition of the South Atlantic States.

## JOHN FRANKLIN BAILEY

A.B., Waynesburg College, 1903.

Essay: The Theory of Tyrannicide in England during the Seventeenth Century.

## EZRA FLAVIUS BAKER

A.B., Missouri Valley College, 1898;

B.D., Cumberland University, 1901.

Essay: Kent's View of the External World.

## STEPHEN FIELDING BAYNE

B.S., College of the City of New York, 1898.

Essay: The State Administration of Public Schools in the South.

## VICTOR ERNEST DE BEAUMONT

A.B., Columbia University, 1901.

Essay: The Shakespearean Tragedies of Ducio, A Study in Dramatic Adaptation.

## ALEXANDER OTTO BECHERT

A.B., Columbia University, 1903.

Essay: Goethe's Early Indebtedness to English Literature.

## FRANCES A. BECKWITH

A.B., Vassar College, 1897.

Essay: The Land System and Internal Administration of Southampton, L. I.

## HOWARD JOHNSTON BENCHOFF

A.B., Franklin and Marshall College, 1898.

Essay: The Political Element in Spenser's Poetry.

## FRANCES CAMPBELL BERKELEY

A.B., Columbia University, 1902.

Essay: The Relation of Spenser's "Faerie Queene" to the "Arcadia" of Sir Philip Sidney.

## JOSEPH STITT BIKLÉ

A.B., Columbia University, 1903.

Essay: The Preparation for Demonstrative Geometry.

## PELHAM ST. GEORGE BISSELL

A.B., Columbia University, 1880;

A.K.C., King's College, London, 1890.

Essay: The Sociological Description of Freeport, L. I.

## EARL LOCKRIDGE BRADSHAW

A.B., University of Missouri, 1903.

Essay: A Study of Mrs. Aphra Behn as a Novelist.

## JOSEPH ALFRED ARNER BURNQUIST

A.B., Carleton College, 1902.

Essay: The Constitution in Relation to Acquired Territory.

## AMY MAUD BURT

Ph.B., University of Vermont, 1900.

Essay: The Curriculum of the Academy.

## ARTHUR DEXTER BUTTERFIELD

B.S., Worcester Polytechnic Institute, 1893; M.S., 1898.

Essay: History of the Figure of the Earth from Meridian Arc Measurements.

## BERTHA CANN

A.B., Oberlin College, 1896.

Essay: Idylls of the King.

## MABEL ADELINE CARPENTER

A.B., Radcliffe College, 1902.

Essay: The Attitude of the French and of the English towards the Mother Tongue during the Renaissance.

## SARAH MAUDE CARROLL

A.B., Randolph Macon Woman's College, 1902.

Essay: John Pendleton Kennedy.

## LAWRENCE RANDOLPH CARTWRIGHT

Ph.B., DePauw University, 1900.

Essay: The Constitutional Principles of Benjamin Harrison.

## JULES CATHERINET

B.S., Dijon University, 1897; Ph.B., 1898.

Essay: The Geology of the Ore Deposits at Copper Mountain, British Columbia.

## ARTHUR HENRY CHAMBERLAIN

B.S., Columbia University, 1903.

Essay: The Condition and Tendencies of Technical Education in Germany.

## ELIZABETH CHAMBERLAIN

A.B., Vassar College, 1876.

Essay: The Relation of the Puppet Plays to Goethe's Faust.

## ALDEN HYDE CLARK

A.B., Amherst College, 1900.

Essay: Recent Famines and Social Development in India.

## ANNA MAY CLARK

Ph.B., University of Vermont, 1898.

Essay: Studies in Cryptogamic Botany for the High School.

## LAURA SOPHRONIA CLARK

B.S., Middlebury College, 1894.

Essay: The Contributions of Physical Science to the Teaching of Geography.

## ALEXANDER BRAINARD COFFEY

A.B., Leland Stanford, Jr., University, 1903.

Essay: A Possible Articulation of the Work in the Kindergarten and the Primary School, Based upon a Theory of Play.



- ARTHUR CARMAN COLE  
A.B., Olivet College, 1894.  
Essay: Style in American State Papers of the Eighteenth Century.
- FRANCIS COLETT  
A.B., Mt. Angel College, 1896; Ph.B., Urban University, Rome, Italy, 1899.  
Essay: Possession in Roman and English Law.
- HOMER LUSK COLLYER  
A.B., College City of New York, 1902.  
Essay: Interest in Certiorari.
- GEORGE CORAY  
B.S., University of Utah, 1894.  
Essay: The Mormon People.
- PERCIVAL CORN  
A.B., College City of New York, 1903.  
Essay: Some Aspects of Trade Union Policy.
- GORDON LA FAYETTE CRAM  
A.B., University of Toronto, 1894.  
Essay: The Legend of Genovefa as treated by Tieck and Hebbel.
- WILLIAM ALBERT CRANE  
A.B., Adelphi College, 1903.  
Essay: The Government of a High School, and the Relation of Principal and Teachers thereto.
- MARGARET HIGGINS CURTIN  
B.S., Columbia University, 1902.  
Essay: The Trap Dikes of the Adirondacks.
- CHARLES ANDERSON DANA  
A.B., Columbia University, 1902.  
Essay: The Reinstatement of a Public Officer as Illustrated in Solomon Cohen vs. The Police Commissioners.
- HENRY DAVIDOFF  
A.B., College of the City of New York, 1899.  
Essay: William Walsh and his Relations with Pope.
- ALBERT DAVIS  
A.B., Columbia University, 1903.  
Essay: The Trend of English Nature Poetry, 1726-1751.
- ALICE DAVIS  
Ph.B., University of Chicago, 1899.  
Essay: The Administration of Benjamin Fletcher in New York.
- OLIVE PERCY DAVIS  
A.B., Leland Stanford, Jr., University, 1900.  
Essay: A Study of Thomas Howell.
- PHILIP REDFIELD DEAN  
A.B., Harvard University, 1896.  
Essay: Recent Charter Provisions and their Workings in New York City.
- WALTER TAUBERT DERLETH  
B.S., College of the City of New York, 1901.  
Essay: A History of Principles of Kinematics.
- FRED MILO DEWEESE  
A.B., University of Nebraska, 1902.  
Essay: Constitutional Limitations upon the Powers of the States in the Regulation of Commerce.
- ALICE DOYLE DRAKE  
Ph.B., Western Reserve University, 1901.  
Essay: The Poetical Works of Thomas Hood.
- WALTER SCOTT DRYFOOS  
A.B., Columbia University, 1896; LL.B., New York Law School, 1899.  
Essay: König Rother, a Middle High German Epic.
- CATHERINE CRYSTAL EASTMAN  
A.B., Vassar College, 1903.  
Essay: Daniel Raymond.
- SAVILLA ALICE ELKUS  
B.S., Columbia University, 1903.  
Essay: The Concept of Purpose.
- SOPHIA LYON FAHS (Mrs. CHARLES HARVEY FAHS)  
A.B., Wooster University, 1897.  
Essay: Missionary Biography as Supplementary to Biblical Material for the Sunday School Curriculum.
- PRESTON COOKE FARRAR  
A.B., Washington and Jefferson College, 1891; A.M., 1894.  
Essay: The Dramaturgy of Restoration Comedy.
- JAMES EMMET FINEGAN  
Ph.B., Union College, 1902.  
Essay: Personal Interest Necessary for a Mandamus.
- FRANK HALSEY FOSS  
A.B., Trinity College, 1901.  
Essay: The Trend of Decisions on the Sherman Anti-Trust Act.
- LEONHARD FELIX FULD  
A.B., Columbia University, 1903.  
Essay: The Bureau of the First Assistant Postmaster-General.
- GEORGE GERARD GAASS  
Ph.B., Central University, 1901.  
Essay: Compacts, or Special Agreements between States and their Relation to the Individual.
- HARRY MOREHOUSE GAGE  
A.B., University of Wooster, 1900.  
Essay: Platonic Realism.

- ELIZABETH VENABLE GAINES  
A.B., Adelphi College, 1898.  
Essay: The North American Berberidaceae and Menispermaceae.
- FRANK GARRETT  
Ph.B., Drake University, 1896.  
Essay: Chinese Charitable Institutions as Mentioned in Chinese Literature.
- CLAUDE WILLIAM GIBSON  
B.S., University of Idaho, 1901.  
Essay: Supremacy of United States Law over State Law.
- ALBERT COOLEY GILLETTE  
Ph.B., Illinois Wesleyan University, 1900.  
Essay: Constitutional Limitations upon the States in the Exercise of the Power of Eminent Domain.
- WALTER LESTER GLENNEY  
A.B., Columbia University, 1902.  
Essay: The Control of Inter-State Commerce in the United States.
- HERMAN GOLDBERG  
B.S., College of the City of New York, 1901.  
Essay: The History of the Theory of Gravitation.
- ALEXANDER GOLDENWEISER  
A.B., Columbia University, 1902.  
Essay: The Rites of New Religions among the Native Tribes of North America.
- JOSEPH EDWARD GOODELL  
A.B., Franklin and Marshall College, 1894.  
Essay: The Solubility of the Sulphides which can be formed in Acid Solutions.
- CHARLES THEODORE GRAWN  
Pd.M., Michigan State Normal College, 1897.  
Essay: An Historic Sketch of Elementary Education in Michigan, from 1805-1904.
- BENJAMIN CHARLES GRUENBERG  
B.S., University of Minnesota, 1896.  
Essay: Chemical Notes on "Bastard" Logwood.
- CHARLES GROVE HAINES  
A.B., Ursinus College, 1903.  
Essay: Bills of Attainder and Ex Post Facto Laws.
- COLBY DIXON HALL  
A.B., Kentucky University, 1902.  
Essay: The Beginnings of Texas. A Sociological Study.
- ROKUNOSUKE HAMAGUCHI  
A.B., New York University, 1903.  
Essay: Past and Present of Japan, from the Standpoint of International Law.
- JOHN DEARBORN HASTIE  
A.B., University of Nebraska, 1899.  
Essay: A Brief Study of the Brain of a Skate (Raiaerinacea) in which one Optic Nerve is completely Degenerated.
- HENRY KOCH HEYMAN  
A.B., Columbia University, 1903.  
Essay: The Extent of the Review Afforded by the Code Certiorari in New York State.
- ALFRED HOFFMAN  
A.B., Columbia University, 1903.  
Essay: Homooanthranilic Nitrile and Some of its Derivatives.
- HOMER DOLIVER HOUSE  
B.S., Syracuse University, 1902.  
Essay: A Determination of the Toxic and Stimulative Values of Some Aluminium Compounds.
- CHARLOTTE BELLE HOWARD  
A.B., University of Cincinnati, 1884.  
Essay: Horace and Catullus.
- CLARE MACLLELEN HOWARD  
A.B., Columbia University, 1903.  
Essay: Poetical Values of Queen Elizabeth.
- EMELINE KERLER HUNT  
A.B., Vassar College, 1889.  
Essay: Lady Mary Wortley Montague and her Relation to her Time.
- STANLEY MYER ISAACS  
A.B., Columbia University, 1903.  
Essay: Citizenship.
- YOSHIMASA ISHIKAWA  
(Equivalent A.B.) Tetsugakkawan, Japan, 1898.  
Essay: Government Monopoly.
- JESSIE WRIGHT JEFFREY  
Ph.B., Northwestern University, 1901.  
Essay: A Study of Henry Mackenzie.
- MAMIE ELIZABETH JENKINS  
A.B., Trinity College, 1896.  
Essay: Sextus Pompeius Festus, Paulus Diaconus, and Verrius Flaccus.
- LEULAH JEANNETTE JUDSON  
A.B., University of Minnesota, 1903.  
Essay: The Early Colonial Charters.
- JOTARO KASUGAI  
(Equivalent A.B.) Shogyo College, Japan, 1898.  
Essay: Japanese Economy and Finance since the War with China in 1894-1895.

- MARY HELEN KEITH  
B.S., Mount Holyoke College, 1894.  
Essay: The Theory of the Voltaic Cell.
- CLARENCE DARWIN KINGSLEY  
B.S., Colgate University, 1897.  
Essay: Treatment of Homeless Men in New York City.
- DAVID KLEIN  
A.B., College of the City of New York, 1902.  
Essay: A Study of the Medieval Biblical Drama.
- NICHOLAS AUGUST KOENIG  
A.B., Columbia University, 1903.  
Essay: Ancient Hebrew Traditions in the Light of Cuneiform Research.
- FREDERICA HERMINE DE LAGUNA  
A.B., Leland Stanford, Jr., University, 1896.  
Essay: The Literary Patron of the Eighteenth Century.
- MAURICE ALLISON LAMME  
B.S., Montana Agricultural College, 1903.  
Essay: On the Reaction between Iodine and Sodium Thiosulphate in Neutral Solution and in Solutions of Varying Acidity.
- GEORGE MERRILL LASELL  
Ph.B., Illinois Wesleyan University, 1903.  
Essay: The Administration of Governor Thomas Dongan in New York.
- CLAY LAWRENCE  
B.S., South Dakota State Agricultural College, 1898.  
Essay: The Common Law Remedy for Illegal Removal from Office, Certiorari or Mandamus.
- CHARLES FRANCIS LAWSON  
A.B., Columbia University, 1903.  
Essay: The Allegory of the Faerie Queene.
- HARRY M. LEWY  
A.B., Columbia University, 1902.  
Essay: Consular Jurisdiction in Oriental Countries.
- JOHN HUBBARD LOGAN  
A.B., Mercer University, 1900.  
Essay: The Idealism of Kant.
- HAROLD CHAFFEE MCCOLLOM  
A.B., Columbia University, 1903.  
Essay: Testamentary Inheritance among the Romans with Special Reference to the Second and Third Orations of Cicero against Verres.
- CHAMPE CARTER MCCULLOCH, Jr.  
A.B., Baylor University, 1885; M.D., Columbia University, 1892.  
Essay: A Study of the Life Cycle of Adelea Orata, Schneider.
- ISABEL MCKINNEY  
A.B., University of Chicago, 1901.  
Essay: A Study of John Newbery.
- LYLE EVANS MAHAN  
A.B., Columbia University, 1902.  
Essay: The Jurisdiction of Congress over the Territories.
- GEORGE EDWARD MARKER  
A.B., University of Illinois, 1903.  
Essay: Some Suggestions on Teaching Children in the Grades how to Study History.
- BELLE LOUISE MEAD  
A.B., Mount Holyoke College, 1900.  
Essay: The Social Pleasures of the East Side Poor.
- JULIAN JACQUES MEYER  
A.B., College of the City of New York, 1898.  
Essay: The Topography of the Brain, projected upon the Surface of Skull.
- GEORGE LOUIS MEYLAN  
M.D., New York University, 1896; B.S., Harvard University, 1902.  
Essay: A Study of Harvard Oarsmen.
- JOSEPH MICHAEL  
B.S., College of the City of New York, 1903.  
Essay: Sidney as a Lyric Poet.
- JULIA POST MITCHELL  
B.L., Smith College, 1901.  
Essay: Timothy Dwight: A Study.
- WILLARD LAWRENCE MYERS  
A.B., College of the City of New York, 1903.  
Essay: Ferguson and Burns.
- FRANK FIELDING NALDER  
A.B., Washington State College and School of Science, 1901.  
Essay: The Theory of Railway Rates Held by the Inter-State Commerce Commission.
- AUBREY PERCY NELSON  
A.B., University of Chicago, 1902.  
Essay: Spinoza's Conception of the Intellectum Dei.
- ENGELBERT NEUS  
B.S., College of the City of New York, 1893.  
Essay: Artistic Treatment of Metallic Architecture.

## THOMAS NOLAN

B.S., University of Rochester, 1879;  
M.S., 1882; Ph.B., Columbia Uni-  
versity, 1884.

Essay: Some Elementary Principles  
of Warming and Ventilating Build-  
ings.

## WILLIAM BRADLEY OTIS

A.B., Iowa College, 1901.

Essay: British Magazines, 1731-  
1771.

## ANGELO PATRI

A.B., College of the City of New  
York, 1897.

Essay: A Study of Educational  
Forces outside of the Public Schools  
Considered from a Standpoint of  
School Administration.

## ROGER CROSSMAN PECK

A.B., Yale University, 1903.

Essay: Physics in New York Schools.

## JENNIE POMERENE

A.B., Vassar College, 1886.

Essay: Cicero's Relation with Roman  
Society.

## MITTIE LOVE PORTER

A.B., Randolph Macon Woman's  
College, 1902.

Essay: Restoration and Primary  
Reconstruction in Georgia.

## MELVIN PRICE

B.S., Purdue University, 1897; E.E.,  
1902.

Essay: An Investigation of the Laws  
of Frictional Resistance with Special  
Attention to the Microstructure of  
Solid Materials and the Area of the  
Surface of Contact.

## JULIA ELNORA RICHARDSON

B.S., Northwestern University, 1899.

Essay: The Influence of Pope Sil-  
vester II. (Gerbert) upon Mathematics  
about the Year One Thousand.

## WINIFRED JOSEPHINE ROBINSON

B.S., University of Michigan, 1899.

Essay: Tuberous Storage and Pro-  
pagative Bodies.

## FREDERICK WILLIAM ROE

A.B., Wesleyan University, 1897.

Essay: Steele and his Place in Eng-  
lish Comedy.

## LUCIUS KIMBALL RUSSELL

B.S., Massachusetts Institute of  
Technology, 1886.

Essay: Chemistry in New York  
High Schools.

## SAMUEL JOHN SAMPLE

A.B., Ottawa University, 1901.

Essay: The Powers of the Common-  
wealth Governor.

## VIOLETTE EUGÉNIE SCHARFF

A.B., Adelphi College, 1900.

Essay: Comparison between Beat de  
Mural's, "Lettres sur les Anglais"  
and Voltaire's "Lettres Anglaises."

## JACOB S. SCHEY

Ph.B., University of Colorado, 1902.

Essay: The Constitutional Limita-  
tions upon the State in the Regula-  
tion of Commerce and their Interpre-  
tations by the Supreme Court.

## FREDERICK FABER DU FAUR SCHUETZ

Mech. Eng., Stevens Institute of  
Technology, 1903.

Essay: The Extraction of Lithium  
from Amblygonite.

## ROBERT LIVINGSTON SCHUYLER

A.B., Columbia University, 1903.

Essay: Edward Randolph and  
Massachusetts.

## RALPH JACOB SCHWARZ

A.B., Tulane University, 1902.

Essay: The German Theory of War-  
ranty of Contract in English and  
American Law of Agency.

## LEWIS EDGAR PIAGET SHANKS

Ph.B., Cornell University, 1899.

Essay: Charles Baudelaire.

## ELINORE RACHEL SHARPLESS

A.B., Wells College, 1900.

Essay: A Course in Geometry for a  
Trade School for Girls.

## JOSEPH MATTHEW SHEEHAN

A.B., St. John's College, 1892.

Essay: The Dramaturgic Art of  
Gabriele D'Annunzio.

## JEROME BENJAMIN SHOENFELD

A.B., Columbia University, 1903.

Essay: The Origin and Rise of the  
Woolen Industry in the United  
States.

## JAROSLAV SMETANKA

Testimonium maturitatis, Gymna-  
sium, Kolin, Bohemia, 1899; B.D.,  
Union Theological Seminary, 1902.

Essay: The Democratic National  
Convention of 1876.

## ABRAHAM SMITH

A.B., College of the City of New  
York, 1898.

Essay: Sources of Richard Wagner's  
Tannhäuser and the Sängerkrieg auf  
der Wartburg.



## SAMUEL SMYTH, Jr.

B.S., College of the City of New York, 1900.

Essay: The Treatment of the Fundamental Arithmetical Operations in the Sixteenth Century as Compared with the Modern Treatment.

## WINIFRED SNOW

B.L., University of Minnesota, 1899.

Essay: The Odes of Dr. Akenside Considered Specifically as to their Influence on Gray and Collins.

## CHARLES CLYDE SPICER

A.B., Columbia University, 1902.

Essay: The Power of Municipal Common Councils to Prohibit Acts except on Consent of Certain Officials.

## HARRISON ROSS STEEVES

A.B., Columbia University, 1903.

Essay: National Types in the Elizabethan Drama.

## FEIST M. STRAUSS

A.B., Western Reserve University, 1903.

Essay: The Verb Constructions in the First Three Books of Vergil's *Æneid*.

## EVELYN SWAN

B.S., Columbia University, 1903.

Essay: The Political Writings of Swift.

## CHARLES CHRISTIAN SWARTZ

A.B., Yale University, 1900.

Essay: The Devons-Carbonic Section of Northwestern Pennsylvania.

## FLETCHER HARPER SWIFT

A.B., Dartmouth College, 1898; B.D., Union Theological Seminary, 1903.

Essay: The Origin and History of the School District in New York.

## MASAKAZU TAKATA

(Equivalent A.B.) Keiogijiku University, Japan, 1897.

Essay: Speculation.

## PHILIP HYATT TARR

Ph.B., Western Reserve University, 1902.

Essay: Syllabus of an Essay on the Idea of Obligation.

## OSIEOLA ALVIN THAXTON

A.B., Mercer University, 1901.

Essay: The Development of the Common School System of Georgia.

## CHARLES DOSWELL TOMKIES

A.B., Columbia University, 1903.

Essay: Gray's Place in the Romantic Movement.

## CAMILLE AUGUSTE TOUSSAINT

A.B., Columbia University, 1903.

Essay: Minimal Curves.

## THOMAS TRAVIS

Ph.B., Wesleyan University, 1900;

B.D., Union Theological Seminary, 1903.

Essay: Juvenile Offenders.

## ELIZABETH MCJIMSEY TYNG

A.B., Cornell University, 1903.

Essay: The Third Book of Lucretius.

## MABEL MORRIS UFFORD

B.L., Smith College, 1890.

Essay: The Language of Samuel Sewall.

## CHUNG YU WANG

B.S., Tientsin University, 1899.

Essay: A Project for the Development of a Drift Mine in California.

## JAMES PLAISTED WEBBER

A.B., Bowdoin College, 1900.

Essay: Stage Directions in the Spoken Text of Shakspeare's Plays.

## FREDERIC LYMAN WELLS

A.B., Columbia University, 1903.

Essay: Experimental Phonetics and Verner's Law.

## CORDELIA WENDT

A.B., Columbia University, 1901.

Essay: Coleridge's Views of Style.

## GEORGE MEASON WHICHER

A.B., Iowa College, 1882; A.M., 1885.

Essay: The Pomerium at Rome.

## ALAIN CAMPBELL WHITE

A.B., Harvard University, 1902.

Essay: The Italianate Lyric in Spain.

## HORACE LORING WHITE

B.S., University of Maine, 1898.

Essay: Animal Enzymes.

## FRIEDRICH OTTO WILLHÖFFT

(Equivalent A.B.) Königliches Gymnasium, Leipzig, 1894.

Essay: The Injector.

## IRA ABRAHAM WILLIAMS

B.S., Iowa State College, 1898; M.S., 1902.

Essay: The Comparative Accuracy of the Methods for Determining the Percentage of the Several Components in an Igneous Rock.

## LOUISE WOLF

Heidelberg University, 1902-1903.

Essay: The Dramatizations of Susanna in the Sixteenth Century.

## CHARLES WINTER WOOD

A.B., Beloit College, 1895; A.M., 1898.

Essay: The Teaching of English in the Industrial Schools (Colored) in the South.

## ELIZABETH CORINNE WOOD

A.B., Allegheny College, 1889.  
 Essay: The Tribunate of the Plebs  
 in Rome During the Period of the  
 Punic Wars.

## HOWELL ROLAND WOOD

B.S., Colgate University, 1897.  
 Essay: Recent Investigations on the  
 Effect of Light on Metallic Surfaces.

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## CHARLOTTE WRIGHT

A.B., University of Cincinnati, 1901.  
 Essay: Intellectual Life under the  
 Ottos.

## DAVID KING YOUNG, Jr.

B.S., University of Tennessee, 1889.  
 Essay: The Scotch-Irish in East  
 Tennessee.

## Doctor of Philosophy

## HAL TRUMAN BEANS

B.S., University of Nebraska, 1899;  
 A.M., 1900.  
 Dissertation: Maminobenzonitrile  
 and some of its derivatives.

## CHARLES AUSTIN BEARD

Ph.B., De Pauw University, 1898;  
 A.M., Columbia University, 1903.  
 Dissertation: The office of the Justice  
 of the Peace in England.

## HAROLD MARTIN BOWMAN

LL.B., University of Michigan, 1899;  
 B.L., 1900; A.M., 1901.  
 Dissertation: The administration of  
 Iowa; a study in centralization.

## DOROTHEA FRANCES CANFIELD

Ph.B., Ohio State University, 1899.  
 Dissertation: Racine and Corneille in  
 England; a study of the translations  
 into English of Racine and the two  
 Corneilles, with especial reference to  
 their presentation on the English  
 stage.

## EDWARD WARREN CAPEN

A.B., Amherst College, 1894.  
 Dissertation: The historical develop-  
 ment of the Poor-Law in Connecticut.

## WALTER ERNEST CLARK

A.B., Ohio Wesleyan University,  
 1896; A.M., 1898.  
 Dissertation: Josiah Tucker; a study  
 in the history of economics.

## SAMUEL BENJAMIN CRANDALL

B.S., Alfred University, 1897.  
 Dissertation: The making, enforce-  
 ment, and interpretation of treaties.

## LOUIS ISRAEL DUBLIN

B.S., College of the City of New York,  
 1901.  
 Dissertation: The history of the  
 germ cells in *Pedicellina Americana*.

## MYRON SAMUEL FALK

C.E., Columbia University, 1899;  
 Mech. Eng., Stevens Institute of  
 Technology, 1900.  
 Dissertation: On the elastic proper-  
 ties of cement mixtures.

## FREDERIC ERNEST FARRINGTON

A.B., Harvard University, 1894;  
 A.M., Columbia University, 1902.  
 Dissertation: The public primary  
 school system of France, with special  
 reference to the training of teachers.

## WALTER LYNWOOD FLEMING

B.S., Alabama State College, 1896;  
 M.S., 1897; A.M., Columbia Uni-  
 versity, 1901.  
 Dissertation: Reconstruction in Ala-  
 bama.

## CHARLES SAVAGE FORBES

A.B., Columbia, 1901; A.M., 1903.  
 Dissertation: Geometry of circles  
 orthogonal to a given sphere.

## GUY STANTON FORD

B.L., University of Wisconsin, 1895.  
 Dissertation: Hanover and Prussia,  
 1795-1803.

## WILLIAM FLOWERS HAND

B.S., Mississippi Agricultural and  
 Mechanical College, 1893; M.S.  
 1895.  
 Dissertation: A further investigation  
 of syntheses of the alkylketodihy-  
 droquinazolines.

## PERCY HUGHES

A.B., Alfred University, 1899; A.M.,  
 Columbia University, 1902.  
 Dissertation: The concept action, in  
 history and the sciences.

## THOMAS JESSE JONES

A.B., Marietta College, 1897; A.M.,  
 Columbia University, 1899; B.D.,  
 Union Theological Seminary, 1900.  
 Dissertation: The sociology of a New  
 York City block.

## WILLIAM JONES

A.B., Harvard University, 1900;  
 A.M., Columbia University, 1901.  
 Dissertation: Some principles of  
 Algonkin word formation.

## WILLIAM ERSKINE KEL LICOTT

Ph.B., Ohio State University, 1898.  
 Dissertation: The development of  
 the vascular system of *Ceratodus*.

## STEPHEN HERBERT LANGDON

A.B., University of Michigan, 1898;  
A.M., 1899; B.D., Union Theological  
Seminary, 1903.

Dissertation: The building-inscriptions  
of the Neo-Babylonian period.

## WILLIAM ELLERY LEONARD

A.B., Boston University, 1898; A.M.,  
Harvard University, 1899.

Dissertation: Byron and Byronism  
in America.

## ARTHUR COLON NEISH

A.B., Queen's University 1898;  
A.M., Columbia University, 1900.

Dissertation: A new separation of  
thorium from cerium lanthanum and  
didymium by means of metanitro  
benzoic acid.

## NAOMI NORSWORTHY

B.S., Columbia University, 1901.

Dissertation: The psychology of  
mentally deficient children.

## ERNEST WILLIAM SUTTON PICKHARDT

A.B., Harvard University, 1898;  
LL.B., New York Law School, 1900;  
A.M., Columbia University, 1902.  
Dissertation: De Aeschyl'i Imagini-  
bus.

## HERVEY WOODBURN SHIMER

A.B., Lafayette College, 1899; A.M.,  
1901.

Dissertation: The upper Siluric and  
lower Devonian faunas of Trilobite  
mountain, Orange Co., N. Y.

## EDWIN SMITH TODD

A.B., Wittenberg College, 1893;  
Ph.D., 1901.

Dissertation: A social study of Clark  
Co., Ohio.

## WILLIAM CULLEN UHLIG

Ph.B., Columbia University, 1896.

Dissertation: The nitrogen contents  
of commercial distilled water.

## GREGORY DEXTER WALCOTT

A.B., Brown University, 1897; A.M.,  
Columbia University, 1899; B.D.,  
Union Theological Seminary, 1900.

Dissertation: Lutheran and Kantian  
elements in Ritschl's conception of  
God.

## ALBERT CONCER WHITAKER

A.B., Leland Stanford, Jr., Uni-  
versity, 1899.

Dissertation: The entrepreneur.

## HONORARY DEGREES

Conferred, unless otherwise mentioned, at the annual Commencement, June 8, 1904

## Master of Arts

HOWARD JASON ROGERS, A.B.

*Assistant Commissioner of Education of the State of New York*

## Doctor of Science

HUGO DE VRIES, Ph.D.

*Professor of Botany in the University of Amsterdam*

SIR WILLIAM RAMSAY, K.C.B.; Ph.D.; F.R.S.

*Professor of Chemistry in the University College in London*

(Conferred *in camera* October 3, 1904)

WILLIAM HENRY NICHOLLS, M.S.; LL.D.

*President of the Society of Chemical Industry*

(Conferred *in camera* October 3, 1904)

## Doctor of Letters

CHARLES FOLLEN MCKIM, A.M.

*Architect*

## Doctor of Laws

ALFRED CONKLIN COXE, A.B.

*Judge of the Circuit Court of the United States*

ELIHU ROOT, A.B.

*Formerly Secretary of War of the United States*

MOST REV. RANDALL THOMAS DAVIDSON, D.D.

*Archbishop of Canterbury*

(Conferred at the opening exercises, September 28, 1904)

KARL LAMPRECHT, Ph.D.

*Professor of History in the University of Leipzig*

(Conferred *in camera*, October 31, 1904)

RT. HON. JAMES BRYCE, D.C.L.; Litt.D.

*Member of Parliament from Aberdeen*

(Conferred *in camera*, October 18, 1904)

### Doctor of Sacred Theology

RT. REV. DAVID HUMMELL GREER, D.D.

*Coadjutor Bishop of New York*

Conferred upon graduates of Columbia College, or of one of the University Schools at the University Convocation in commemoration of the One Hundred and Fiftieth Anniversary of the Foundation of King's College, October 31, 1904.

### Doctor of Laws

JOSEPH LAROCQUE, A.B., 1849

*Formerly President of the Association of the Bar of the City of New York.*

FRANCIS DELAFIELD, M.D., 1863

*Emeritus Professor of the Practice of Medicine in the College of Physicians and Surgeons, Columbia University.*

EDWARD GAMALIEL JANEWAY, M.D., 1864

*Dean of the University-and-Bellevue Hospital Medical College.*

WILLARD BARTLETT, A.B., 1869

*Justice of the Supreme Court of the State of New York, Appellate Division, Second Department.*

WILLIAM MECKLENBURG POLK, M.D., 1869

*Dean of the Cornell University Medical College*

GEORGE LANDON INGRAHAM, LL.B., 1869

*Justice of the Supreme Court of the State of New York, Appellate Division, First Department.*

LE BARON BRADFORD COLT, LL.B., 1870

*Judge of the United States Circuit Court for the First Judicial District since 1884.*

JOHN GREEN CURTIS, M.D., 1870

*Professor of Physiology in Columbia University.*

ROBERT FULTON CUTTING, A.B., 1871; A.M., 1875

*Philanthropist; leader and organizer of movements for social and political betterment.*

BRANDER MATTHEWS, A.B., 1871; LL.B., 1873; A.M., 1874

*Professor of Dramatic Literature in Columbia University.*

OSCAR SOLOMON STRAUSS, A.B., 1871; LL.B., 1873

*Author, diplomat, and publicist; formerly Minister of the United States to Turkey.*

MORGAN JOSEPH O'BRIEN, LL.B., 1875

*Justice of the Supreme Court of the State of New York, Appellate Division, First Department*



- EDWARD DELAVAN PERRY, A.B., 1875  
*Jay Professor of Greek in Columbia University, and Dean of the Faculty of Philosophy.*
- WILLIAM HENRY WELCH, M.D., 1875  
*Professor of Pathology in the Johns Hopkins University.*
- MUNROE SMITH, LL.B., 1877  
*Professor of Roman Law and Comparative Jurisprudence in Columbia University*
- EDWIN ROBERT ANDERSON SELIGMAN, A.B., 1879; LL.B., A.M., 1884; Ph.D., 1885  
*Professor of Political Economy and Finance in Columbia University, and past President of the American Economic Association.*
- ANDREW JAMES McCOSH, M.D., 1880  
*Visiting Surgeon at the Presbyterian Hospital.*
- HARRY THURSTON PECK, A.B., 1881; A.M., 1882  
*Professor of the Latin Language and Literature in Columbia University.*
- WILLIAM ARCHIBALD DUNNING, A.B., 1881; A.M., 1884; Ph.D., 1885  
*Professor of History and Political Philosophy in Columbia University.*
- FRANK JOHNSON GOODNOW, LL.B., 1882  
*Eaton Professor of Administrative Law and Municipal Science in Columbia University.*
- WALTER BELKNAP JAMES, M.D., 1883  
*Professor of the Practice of Medicine in Columbia University, and Visiting Physician at Roosevelt and Presbyterian Hospitals.*
- ABRAHAM VALENTINE WILLIAMS JACKSON, A.B., 1883; A.M., 1884; L.H.D., 1885; Ph.D., 1886  
*Professor of Indo-Iranian Languages in Columbia University.*
- JAMES WILLIS GLEED, LL.B., 1884  
*Professor of the Law of Real Property in the University of Kansas.*

### Doctor of Science

- WILLIAM BLEECKER POTTER, A.B., 1866; E.M., 1869  
*Mining and Metallurgical Engineer.*
- HENRY SMITH MUNROE, E.M., 1869; Ph.D., 1877  
*Professor of Mining in Columbia University.*
- FREDERICK REMSEN HUTTON, A.B., 1873; E.M., C.E., 1876; Ph.D., 1881  
*Professor of Mechanical Engineering in Columbia University, and Dean of the Faculty of Applied Science.*
- WILLIAM STEWART HALSTED, M.D., 1877  
*Professor of Surgery in Johns Hopkins University, and Surgeon-in-Chief at the Johns Hopkins Hospital.*
- NATHANIEL LORD BRITTON, E.M., Ph.D., 1879  
*Emeritus Professor of Botany in Columbia University, and Director of the New York Botanical Garden.*
- MOSES ALLEN STARR, M.D., 1880  
*Professor of Neurology in Columbia University, Consulting Physician at the Presbyterian Hospital.*

LUTHER EMMETT HOLT, M.D., 1880

*Carpentier Professor of Pediatrics in Columbia University and Attending Physician at Babies' and New York Foundling Hospitals.*

MICHAEL IDVORSKY PUPIN, A.B., 1883

*Professor of Electro-Mechanics in Columbia University.*

GEORGE SUMNER HUNTINGTON, M.D., 1884

*Professor of Anatomy in Columbia University.*

ERNST JOSEPH LEDERLE, Ph.B., 1886; Ph.D., 1895

*Former Commissioner of Health of the City of New York.*

## Fellows and Scholars, 1904-05

### University Fellows

- LE ROY ABRAMS, Stanford University, Calif. . . . . *Botany*  
A.B., Leland Stanford University, 1899; A.M., 1902.
- ENOCH MARVIN BANKS, Grantville, Ga. . . . . *Finance*  
A.B., Emory College, Ga., 1897; A.M., 1900; Columbia University, graduate student, 1900-02; 1903-04.
- ALEXANDER OTTO BECHERT, Brooklyn, N. Y. . . . . *Germanic Languages*  
A.B., Columbia University, 1903; Columbia University, Scholar in Germanic Languages, 1903-04.
- CHARLES COLLINS, Kirkwood, Mo. . . . . *Romance Languages*  
A.B., University of Missouri, 1903; Columbia University, Scholar in Romance Languages, 1903-04.
- CHRIS ANDREW HARTNAGEL, Niagara Falls, N. Y. . . . . *Geology*  
B.S., Union College, 1898; Pd.B., State Normal College, 1900.
- VIVIAN ALLEN CHARLES HENMON, Lindsborg, Kan. . . . . *Psychology*  
A.B., Bethany College, Kan., 1895; A.M., 1899; Columbia University, Scholar in Psychology, 1903-04.
- LOUIS JOSEPH MERCIER, Chicago, Ill. . . . . *Romance Languages*  
A.B., St. Ignatius College, Chicago, 1900; A.M., 1902; University of Chicago, Fellow in Romance Languages, 1903-04.
- CHARLES EDWARD MORRISON, New York City. . . . . *Civil Engineering*  
B.S., College of the City of New York, 1897; A.M. and C.E., Columbia University, 1901.
- MAX MORSE, Columbus, Ohio. . . . . *Zoölogy*  
B.S., Ohio State University, 1903.
- ARTHUR HUNTINGTON NASON, Augusta, Me. . . . . *English*  
A.B., Bowdoin College, 1899; A.M., 1903; Columbia University, President's University Scholar in English, 1903-04.
- CHARLES WILLIAM RAMSDELL, Austin, Texas. . . . . *American History*  
A.B., University of Texas, 1903.
- THOMAS THORNTON READ, Laramie, Wyo. . . . . *Mining*  
E.M., Columbia University, 1902.
- ROEMER REX RENSHAW, Eugene, Ore. . . . . *Chemistry*  
B.S., University of Oregon, 1902; M.S., 1903.
- WALLACE BATES SHIELD, Kansas City, Mo. . . . . *International Law*  
A.B., Ohio State University, 1898; LL.B., Kansas City School of Law, 1902.
- PHILIP HYATT TARR, Mt. Vernon, Ohio. . . . . *Philosophy*  
Ph.B., Western Reserve University, 1902.
- EVERETT LYNN THORNDIKE, New York City. . . . . *European History*  
A.B., Wesleyan University, 1902; A.M., Columbia University, 1903.
- JOSEPH HARDING UNDERWOOD, Iowa City, Iowa. . . . . *Sociology*  
A.B., Western College, Iowa, 1902; State University of Iowa, Scholar in Economics, 1902-03; Fellow, 1903-04.
- CHIN YUNG YEN, Tientsin, China. . . . . *Constitutional Law*  
Student at Imperial Tientsin University, 1893-1901; A.B., from Government, 1901; Columbia University, graduate student, 1902-04.

## Honorary Fellows

ALLEN BARBER EATON, Beloit, Wis.....*Sociology*  
Ph.B., Beloit College, 1899; A.M., Yale University, 1902; Columbia University,  
graduate student, 1902-03; Fellow in Sociology, 1903-04.

ALAIN CAMPBELL WHITE, Litchfield, Conn.....*Comparative Literature*  
A.B., Harvard University, 1902; Columbia University, graduate student,  
1903-04.

## International Fellow for Study in France

STEPHEN HERBERT LANGDON, New York City.....*Semitics*  
A.B., University of Michigan, 1898; A.M., 1899; B.D., Union Theological Semin-  
ary, 1903; Columbia University, Fellow in Semitics, 1903-04.

## Barnard Fellow

WILLIAM CAMPBELL, New York City  
B.S., Durham University, England, 1898; M.S., 1903; Ph.D., Columbia Univer-  
sity, 1903; Barnard Fellow, 1903-04.

## George William Curtis Fellow

CHARLES GROVE HAINES, Collegeville, Pa.  
A.B., Ursinus College, 1903; Columbia University, Scholar in Constitutional  
Law, 1903-04.

## Mosenthal Fellow

BENJAMIN LAMBORD, New York City  
Columbia University, student in music, 1900-02.

## John Tyndall Fellow

FREDERIC COLUMBUS BLAKE, Leadville, Colo.  
Ph.B., University of Colorado, 1901; Columbia University, Fellow in Physics,  
1903-04.

## Proudfit Fellow in Letters

STANLEY KIDDER WILSON, New York City  
A.B., Columbia University, 1902; A.M., Harvard University, 1903; Columbia  
University, Proudfit Fellow in Letters, 1903-04.

## Proudfit Fellow in Medicine

LINSLEY RUDD WILLIAMS, New York City  
A.B., Princeton University, 1895; M.D., and A.M. Columbia University, 1899.

## Schiff Fellow

NORRIS ARTHUR BRISCO, Spokane, Wash.  
A.B., Queen's University, Canada, 1898; A.M., 1900; Columbia University,  
Scholar in Political Economy and Finance, 1903-04.

## Columbia Fellow in Architecture

HUBERT VAN WAGENEN, Jr., B.S.

## Class of 1870 Fellow

LEWIS BUFFET CARLL, A.M.

## Research Fellow in Pharmacology

DOUGLAS SYMMERS, M.D.

## Alumni Association Fellows

(College of Physicians and Surgeons)

EDWARD ANTHONY SPITZKA, M.D., *Anatomy*  
AUGUSTUS B. WADSWORTH, M.D., *Pathology*



## President's University Scholars

- NATHANIEL WARING BARNES, Newburgh, N. Y.....*English*  
A.B., Columbia University, 1903.
- CLARENCE EVERETT GORDON, Clinton, Mass.....*Geology*  
B.S., Massachusetts Agricultural College, 1901; B.S., Boston University, 1903.
- CARLTON HUNTLEY HAYES, Afton, N. Y.....*European History*  
A.B., Columbia University, 1904.
- DUDLEY ODELL MCGOVNEY, Cambridge, Mass.....*International Law*  
A.B., Indiana University, 1901; A.M., Harvard University, 1904.
- EDMUND HENRY OLIVER, Toronto, Ontario.....*Economics*  
A.B., University College, Toronto, 1902; A.M., 1903.
- GEORGE BOOKER WATERHOUSE, New York City.....*Metallurgy*  
B.Sc., London University, 1903; Columbia University, graduate student,  
1903-04.
- FREDERIC LYMAN WELLS, New York City.....*Psychology*  
A.B., Columbia University, 1903; A.M., 1904.
- SHIGEO YAMANOUCHI, Tokio, Japan.....*Botany*  
Tokio Normal School, Equivalent to M.Sc.

## University Scholars

- WILLIAM CALVIN ARNOLD, York, Pa.....*Sociology*  
A.B., Lebanon Valley College, 1903; A.M., Columbia University, 1904.
- ABRAHAM BERGLUND, Chicago, Ill.....*Economics*  
A.B., University of Chicago, 1904.
- JOHN GABBERT BOWMAN, Iowa City, Iowa.....*English*  
A.B., University of Iowa, 1899.
- THOMAS CLACHAR BROWN, Fitchburg, Mass.....*Paleontology*  
A.B., Amherst College, 1904.
- LOUIS COHEN, New York City.....*Electro-Mechanics*  
B.Sc., Armour Institute of Technology, 1901.
- ARTHUR WAYLAND DOX, Philadelphia, Pa.....*Chemistry*  
A.B., Central High School of Philadelphia, 1900; B.S., University of Pennsylvania, 1904.
- CARSON S. DUNCAN, Winona Lake, Ind.....*English*  
A.B., Wabash College, 1901; M.A., 1902.
- GEORGE ADAMS ELLIS, Castleton, Vt.....*Physics*  
A.B., Columbia University, 1904.
- FRED GATES FOX, Urbana, Ill.....*English*  
A.B., University of Illinois, 1898; A.M., 1903.
- HARRY GEORGE FRIEDMAN, Cincinnati, Ohio.....*Economics*  
A.B., University of Cincinnati, 1904.
- JAMES HENRY GILBERT, Eugene, Ore.....*Economics*  
A.B., University of Oregon, 1903.
- HUBERT DANA GOODALE, Suffield, Conn.....*Zoölogy*  
A.B., Trinity College, 1903; A.M., 1904.
- FRANK HAMILTON HANKINS, New York City.....*Sociology*  
A.B., Baker University, 1901; Columbia University, graduate student, 1903-04.
- ARTHUR FRANK HEUSSLER, Geneva, N. Y.....*English*  
Ph.B., Hobart College, 1904.
- CECIL SHEPARD HINES, Granville, Ohio.....*Zoölogy*  
B.S., Denison University, 1902.
- MEYER JACOBSTEIN, Rochester, N. Y.....*Political Economy*  
A.B., Columbia University, 1904.
- THOMAS CARLYLE JONES, Philadelphia, Pa.....*Mathematics*  
B.S., University of Pennsylvania, 1903.
- SAMUEL LUCAS JOSHI, Bombay, India.....*Political Economy and Finance*  
A.B., Nitzam College, Madras University, 1896.

LUCAS CARLISLE KELLS, Minneapolis, Minn.....	<i>Philosophy</i>
A.B., University of Minnesota, 1903; A.M., 1904.	
NICHOLAS AUGUST KOENING, New York City.....	<i>Oriental Languages</i>
A.B., Columbia University, 1903; A.M., 1904.	
HOWARD LEE MCBAIN, Richmond, Va.....	<i>Constitutional Law</i>
A.B., Richmond College, 1900; A.M., 1901.	
CHARLES SEARING MEAD, Columbus, Ohio.....	<i>Zoölogy</i>
B.S., Ohio State University, 1904.	
THURSTON MASON PHETTEPLACE, Providence, R. I.....	<i>Mechanical Engineering</i>
Ph.B., Brown University, 1899; M.E., 1901.	
ROBERT LIVINGSTON SCHUYLER, New York City.....	<i>American History</i>
A.B., Columbia University, 1903; A.M., 1904.	
FRANK GOULDSMITH SPECK, Hackensack, N. J.....	<i>Anthropology</i>
A.B., Columbia University, 1904.	
CHARLES RUPERT STOCKARD, Columbus, Miss.....	<i>Zoölogy</i>
B.S. Agricultural and Mechanical College of Mississippi, 1899; M.S., 1902.	
DONALD CLIVE STUART, Detroit, Mich.....	<i>Romance Languages</i>
A.B., University of Michigan, 1903; A.M., 1904.	
ALLAN F. WESTCOTT, Alexandria Bay, N. Y.....	<i>English</i>
Ph.B., Brown University, 1903; A.M., 1904.	

## Curtis Scholars

GERTRUDE ELLEN BALLARD, Minneapolis, Minn.....	<i>English</i>
A.B., University of Minnesota, 1903.	
ETHEL MANTER POOL, New York City.....	<i>Greek</i>
A.B., Columbia University, 1903; graduate student, 1903-04.	
ETHEL DODGE WILCOX, Yonkers, N. Y.....	<i>Sociology</i>
A.B., Columbia University, 1903; graduate student, 1903-04.	

## Richard Butler Scholar

OTHO LEE MONROE, Delaware, Ohio.....	<i>Medicine</i>
--------------------------------------	-----------------

## John D. Jones Scholar

CHARLES RUPERT STOCKARD, M.S.

## Alonzo Clark Scholar

J. HARVEY BORDEN, M.D.

The following holders of University Scholarships served as proctors at the September entrance examinations of 1904, and the University hereby acknowledges its indebtedness to them for their satisfactory performance of this duty;

WILLIAM C. ARNOLD	ARTHUR W. DOX
GERTRUDE E. BALLARD	ETHEL M. POOL
ARTHUR C. COLE	DONALD C. STUART

## BARNARD COLLEGE

## Trustees' Competitive Scholar

LILLIAN ROSANOFF

Brooklyn Scholars <sup>1</sup>

.....	SALLIE FAULKNER FLETCHER
.....	EMILIE JOSEPHINE HUTCHINSON
.....	ANNA JOSEPHINE KENNEDY
.....	MABEL EMMA BROWNE
.....	FAITH DELATOUR CHIPPERFIELD
.....	MARGARETTA WIGHTMAN

<sup>1</sup> Other Brooklyn Scholarships which were not won by competitive entrance examinations reverted to the Scholarship Committee and were awarded as non-competitive Scholarships.

## TEACHERS COLLEGE

## Honorary Fellow

ELLWOOD P. CUBBERLEY, Stanford University, Calif.

A.B., Indiana University, 1901; A.M., Columbia University, 1902; Associate Professor of Education, Leland Stanford University.

## Teaching Fellows

BENJAMIN RICHARD ANDREWS, New York City

A.B., Cornell University, 1901; A.M., 1903; Teachers College, honor assistant, 1903-04; Educational Museum.

EDWARD CHARLES ELLIOTT, Falls Creek, Ida.

B.S., University of Nebraska, 1895; A.M., 1897; Teachers College, honor assistant, 1903-04; Educational Administration.

FLETCHER HARPER SWIFT, New York City

A.B., Dartmouth College, 1898; B.D., Union Theological Seminary, 1903; Teachers College, graduate scholar, 1903-04; History and Principles of Education.

## Fellows in Education

JESSE HARLIAMAN COURSAULT, Columbus, Ohio

A.B., Ohio State University, 1893; A.M., 1898; A.M., Harvard University, 1900; Teachers College, graduate scholar, 1903-04.

WALTER FENNO DEARBORN, Middletown, Conn.

A.B., Wesleyan University 1896; A.M., 1903; Teachers College, graduate scholar, 1903-04.

GEORGE DRAYTON STRAYER, Baltimore, Md.

A.B., Johns Hopkins University, 1903; Teachers College, Earl's Scholar, 1903-04.

## Special Graduate Scholars

WILLIAM THOMAS FLETCHER, Forest Grove, Ore.

B.S., Pacific University, 1900.

ALVA WALKER STAMPER, Chico, Calif.

B.S., University of California, 1895.

## Regular Graduate Scholars

WILLIAM ANTHONY AERY, Elmhurst, N. Y.

A.B., Columbia University, 1904.

CHARLES JOSEPH C. BENNETT, San Jose, Calif.

A.B., University of Nashville, 1889; A.M., 1892; A.M., Leland Stanford University, 1896.

HELEN KATHARINE BRAINERD, St. Albans, Vt.

A.B., Wellesley College, 1900.

ARTHUR CARMAN COLE, North Croftsbury, Vt.

A.B., Olivet College, 1894; graduate student, Columbia University, 1903-04.

FRANKLIN SHERMAN HOYT, Indianapolis, Ind.

B.S., Boston University, 1893.

ARTHUR JULIUS JONES, Malden, Mass.

A.B., Iowa College, 1893.

MACON ANDERSON LEIPER, Little Rock, Ark.

A.B., University of Nashville, 1901.

GERHARD RICHARD LOMER, Montreal, Canada

B.A., McGill University, 1903.

NATALIE ROTH, Meriden, Conn.

A.B., Mt. Holyoke College, 1898.

SAMUEL SUNG YOUNG, San Francisco, Calif.

A.B., University of California, 1904.

## Tileston Scholar

JANE MATHEWS, Oswego, N. Y.

Diploma, Oswego Normal and Training School, 1884; Teachers College, student, 1903-04.

## Shackelford Scholar

CLARA MARIA GILBERT, Pittsford, Vt.

Teachers College, student, 1903-04.

## Pierrepont Scholar

LILLIE MARIA LAWRENCE, Lebanon, N. H.

Diploma, State Normal School, Framingham, Mass., 1893; Teachers College, student, 1903-04.

## Pond Scholar

MARY LOIS KISSELL, Davenport, Iowa

University of Chicago, 1900-03.

## Charlotte Louisa Williams Scholar

WILLYSTINE GOODSSELL, Naugatuck, Conn.

Diploma, Welch Training School, New Haven, 1890; Teachers College, student, 1902-04.

## Hoadley Scholars

ALMA LOUISE BINZEL, Beavers Dam, Wis.

Diploma, State Normal School, Milwaukee, 1894; Teachers College, student, 1903-04.

MARIA DANIEL GRAHAM, Warrenton, N. C.

L. I., Peabody Normal College, 1895; Teachers College, student, 1903-04.

## Bryson Scholars

CLARA M. HETSCHER, New York City

Diploma, State Normal School, Chico, Calif., 1903; Teachers College, student, 1903-04.

ELIZABETH KIMBER SEWARD, New York City

Diploma, Teachers College, 1893.

## Caroline Scholars in Domestic Science

BERTHA MELVILLE MILLER, Franklin, Ind.

Ph.B., Franklin College, 1900; Teachers College, student, 1903-04.

LUCILE HINKLE STIMSON, New York City

A.B., Vassar College, 1904.

## Brown Scholar

SADELLA DONALDSON, Aberdeen, Miss.

Diploma, Tuskegee Normal School, 1902.

## Macy Scholars

CARRIE VIVIAN BARNES, Denver, Colo.

Certificate, Tuskegee Normal School, 1903.

ELIZABETH VON SALTZA, New York City

Vassar College, 1902-04.

YETTA SILAS SHONINGER, Louisville, Ky.

Diploma, Louisville Normal School, 1897.

GRACE OWEN, London, England

Bronze medal, Royal Academy of Music, London, 1894; Diploma, Teachers College, 1899.



MARY ADALINE LAMB, Denver, Colo.

STELLA TERRY WEEKS, Brooklyn, N. Y.

Teachers College, student, 1903-04.

WINIFRED WILCOX, Yonkers, N. Y.

Teachers College, 1901-04.

Manual Training Scholars

LOUIS AGASSIZ DAMON, New York City

Teachers College, student, 1903-04.

CORDELIA VIRGINIA GLANTON, Newman, Ga.

Shorter College, 1883-1890.

ROBERT BARTHOLOW HARSHE, Columbus, Ga.

L.B., Missouri University, 1899.

CHARLES LOUIS JACOBS, Indianapolis, Ind.

Teachers College, diploma, 1902.

MARY WILSON MCGAHEY, Lincoln, Neb.

A.B., University of Nebraska, 1898.

ORLOW LEE WHITCOMB, Pueblo, Colo.

Diploma, Toledo Polytechnic School, 1896; diploma, Toledo Normal School, 1900.

## Awards of Honors and Prizes, 1904

### COLUMBIA COLLEGE

#### Honors

##### General Honors

###### Class of 1904

CARLTON HUNTLEY HAYES  
*Morgan Scholar*  
ARTHUR S. GUTMAN  
HOWARD AUGUSTIN BUTLER  
EDWIN CHESTER VOGEL  
JOHN REDWOOD FISHER  
MEYER JACOBSTEIN  
OTTO H. LEBER  
GRANT KNAUFF

###### Class of 1905

LEONARD FLAGGE OTTEN  
EDWARD SAPIR  
*Pulitzer Scholar*  
HAROLD LIVINGSTON REED THOMAS  
STEWART SLOSSON  
JAMES PUTNAM HEATON  
<sup>1</sup> WILLIAM JOHN MITCHELL  
JACOB ZEITLIN  
*Pulitzer Scholar*  
SAMUEL LLOYD BARRICK  
*Morgan Scholar*  
EDWARD HENRY GREEN  
STANLEY BROWN-SERMAN  
STILLMAN DANA TOWNSEND

HUGH PETERS TREAT  
CURTIS LUBLIN  
*Vanderbilt Scholar*  
ROBERT LE ROY

###### Class of 1906

MICCO MILTIADES ACHILLES FONTRIER  
*Vanderbilt Scholar*  
WILBUR LARREMORE CASWELL  
*Brooklyn Scholar*  
BELMONT CORN  
FLETCHER IRVIN KRAUSS  
*Faculty Scholar*

###### Class of 1907

MICHAEL SOLOMON  
*Hewitt Scholar*  
HENRY EAGLE CHAPIN  
RALPH CHARLES BELCHER MOORE  
*Moffat Scholar*  
DAVID HERMAN JOSEPH  
ISAAC MAURICE WORMSER  
FRANK LOUISON HOPKINS  
ROBERT HENRY HASKELL

##### Departmental Honors

###### Final Honors

*Economics*  
DURWARD EARLE BURCHELL  
ABRAHAM MOSES DAVIS

*English*  
LOUIS BLISS GILLET

*History*  
CARLTON HUNTLEY HAYES

<sup>1</sup> Deceased

Junior Honors

*English*

JACOB ZEITLIN

*History*

MONTE LONDON

*Mathematics*

HAROLD WORTHINGTON WEBB

Sophomore Honors

*German*

WALTER SICHEL

*Mathematics*

NATHAN NATHAN DICKLER

Competitive Scholarships, Class of 1908

Alumni Competitive Scholar

HENRY BLUMBERG

Harper Scholar

CLEMENT S. BRAININ

Brooklyn Scholars

WILLIAM HENRY ALLEN, JR.

HENRY BLUMBERG

IRA SKUTCH

LOUIS JACOB WOLFF

Prizes

Alumni Association Prize

LEONARD GORDON McANENY

Chanler Historical Prize

EDWIN CHESTER VOGEL

George William Curtis Medals

Gold Medal: HOWARD A. BUTLER

Silver Medal: WILLIAM J. DONOVAN

Other Prizes

Toppan Prize

WALTER PERCY BORDWELL

Bunner Medal

ARTHUR CARMAN COLE

Illig Medal

HENRY HAROLD HIGBIE

## Darling Prize

FRIEDRICH OTTO WILLHÖFFT

## City Historical Prize

LEONHARD FELIX FULD

## BARNARD COLLEGE

## Kohn Mathematical Prize

BETTY TRIER

Honorable Mention: MABEL DENTON

## Hermann Botanical Prize

MAY APPLETON PARKER

## TEACHERS COLLEGE

## Society of Colonial Dames Prize

BRUCE RYBURN PAYNE



## DIRECTORY OF OFFICERS

B.	=Barnard College.	H. M. S.	=Horace Mann School.	So.	=South Hall.
C.	=Columbia College.	L.	=Library.	Sp. S.	=Speyer School.
Ea.	=Earl Hall.	P. & S.	=College of Physicians and Surgeons.	T.	=Teachers College.
E.	=Engineering.	Phar.	=College of Pharmacy.	U.	=University.
F.	=Fayerweather.	S.	=Schermerhorn.	V. C.	=Vanderbilt Clinic.
Gym.	=Gymnasium.	S. M. H.	=Sloane Maternity Hospital.	W.	=West.
H.	=Havemeyer.				

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Abbe, R. Clin. Lect.		P. & S.	13 W. 50
Abbot, A. Tr.		H. M. S.	416 W. 118
Abbott, H. V. Adj. Prof.	Tu. F. 11.30	T.	417 W. 114
Abbott, Julia W. Asst.		H. M. S.	
Adler, F. Prof.			123 E. 60
Aldrich, J. Clin. Asst.		V. C.	164 W. 81
Allen, B. D. Organist T. C.		T.	
Alline, Anna L. Instr.		T.	402 W. 124
Anthony, Kate S. Tr.		H. M. S.	2337 Broadway
Arendt, M. Lect.	Tu. 11.30-12.30; Th. 1.30-3.30		
Atwood, C. E. Clin. Asst.		503 E.	1851 Seventh ave.
Austin, Isabella, Tr.		V. C.	10 W. 16
Ayer, J. C. Asst. Instr.		Sp. S.	1230 Amsterdam ave.
		P. & S.	31 W. 36
Bacon, Georgia F. Tr.		H. M. S.	44 Irving pl.
Bacon, G. Prof.		P. & S.	47 W. 54
Bagster-Collins, E. W. Adj. Prof.	Tu. Th. 1.30	231 T.	522 W. 123
Bailey, F. R. Adj. Prof.		P. & S.	1165 E. Jersey, Elizabeth, N. J.
			52 W. 53
Bailey, P. Instr.		P. & S.	
Baker, C. M. Tr.	Absent on leave	H. M. S.	
Baker, F. T. Prof.		T.	
Baker, G. H. Emer. Lib.			294 Manhattan ave.
Baker, Helen B. Tr.		H. M. S.	140 W. 87
Baldwin, Elizabeth, Lib. T. C.		T.	469 Main, E. Orange, N. J.
Ball, A. B. Prof.		P. & S.	42 W. 36
Ball, Margaret E. Asst.	Tu. Th. 11.30	136 B.	414 W. 124
Bandelier, A. F. Lect.	M.-F. 8-4	Am. Mus. Nat'l History	"Evelyn," Columbus ave. and 78
Banker, C. E. Asst.		P. & S.	116 W. 136
Bargy, H. Tutor	Tu. Th. 2.30	305 W.	Fort Washington Park
Barnum, Edith C. Tr.		H. M. S.	151 W. 105
Bastedo, W. A. Tutor		P. & S.	120 W. 58
Batchelder, Evelyn, Tr.		H. M. S.	417 W. 118
Batchelder, Mildred I. Tr.		H. M. S.	415 W. 118

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Bayles, G. J. Lect.	F. 4.30	405 L.	404 Main, Orange, N. J.
Beans, H. T. Tutor	Tu. 11.30-12	512 H.	361 W. 123
Beard, C. A. Lect.	Tu. Th. 1.30- 2.30	322 U.	439 W. 123
Beaver, G. A. Sec. Earl Hall	M.-F. 12.30- 1.30	Ea.	604 W. 115
Benns, C. P. Instr.	M.W.F. 12.30- -2	125 T.	18 Landscape ave., Yonkers, N. Y.
Benton, Eliza, Asst.		T.	
Berg, H. W. Instr.		P. & S.	331 E. 88
Berg, W. N. Asst.		P. & S.	
Berger, Jane, Asst. Sec. T. C.		T.	1230 Amsterdam ave.
Berkey, C. P. Tutor	Tu. 9.30- 12.30	302 S.	2373 Seventh ave. 10 E. 58
Bickham, W. S., Asst. Instr.		P. & S.	
Bigelow, M. A. Adj. Prof.	M. 10.30; F. 11.30	301 T.	223 W. 106
Bigongiari, D. Asst.	Th. 11-12	308 C.	131 Sands, Brooklyn
Biklé, C. E. Adj. Prof.	M.W. 4.15	212 T.	527 W. 124
Bingham, A. W. Asst. Dem.		P. & S.	266 W. 88
Black, A. Instr.	Tu. Th. F. S. 10.30-12.30	507 E.	521 W. 150
Blake, J. A. Prof.		P. & S.	601 Madison ave.
Blodgett, F. J. Clin. Asst.		V. C.	140 W. 72
Blow, Susan A. Lect.		T.	Cazenovia, N. Y.
Boag, E. T. Asst. Registrar		P. & S.	3 Lenox ave., White Plains, N. Y.
Boas, F. Prof.	Tu. Th. 12.30	405 S.	123 W. 82
Bogert, M. T. Prof.	M. Tu. Th. F. 2.30-4.30	408 H.	430 W. 154
Bolles, M. N. Tutor	M. 10.30- 11.30	102 H.	317 W. 124
Borden, J. H. Asst.		P. & S.	
Botsford, G. W. Instr.	M. 11.30-12	319 U.	48 S. Ninth ave., Mt. Vernon, N. Y.
Bovaird, D. Tutor		P. & S.	126 W. 58
Bradley, W. L. Clin. Asst.		V. C.	55 W. 75
Braun, W. A. Tutor	M. Th. 11.30- 12	113 B.	353 W. 120
Brewer, G. E. Prof.		P. & S.	61 W. 48
Brewster, W. T. Adj. Prof.	Tu. Th. 2.30- 3.30	137 B.	307 W. 93
Brinsmade, D. B. Clin. Asst.		V. C.	576 West End ave.
Britton, N. L. Emer. Prof.			N. Y. Botanical Gar- den
Brooks, F. E. Tr.		H. M. S.	501 W. 113
Brooks, Harriet, Tutor	Tu. Th. 3- 3.30	232 B.	417 W. 118
Brooks, Mrs. Marie K. Tr.		H. M. S.	501 W. 113
Brouner, W. B. Clin. Asst.		V. C.	256 W. 12
Brugman, A. F. Clin. Asst.		V. C.	201 W. 139
Bruner, F. G. Asst.			
Bull, W. T. Emer. Prof.			35 W. 35
Burchenal, Elizabeth, Tr.		H. M. S.	142 W. 104
Burdick, F. M. Prof.	M. W. 3.30- 4.30	303 L.	633 W. 115

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Burgess, J. W. Prof. and Dean Sch. of Pol. Sci.	M.-Th. 3.30- 4.30	404 L.	323 W. 57
Burr, W. H. Prof.	Tu. 10.30; Th. 11.30	401 E.	151 W. 74
Burton-Opitz, R. Adj. Prof.		P. & S.	102 E. 75
Buschek, H. A. Tr.		H. M. S.	25 Morningside ave.
Butler, Eliza R. Tr.		H. M. S.	119 E. 30
Butler, N. M. Pres.	M. W. F. 11- 12; 1.30- 3.30	213 L.	119 E. 30
Caldwell, A. Asst.	Tu. 2.30	505 F.	258 W. 127
Calhoun, Mary E. Tr.		H. M. S.	176 W. 87
Calkins, G. N. Prof.	Daily 9-12	604 S.	1 W. 81
Campbell, W. Instr.	M.-W. 9.30- 10.30	102 H.	419 W. 118
Canfield, Dorothea F. Sec. H. M. S		H. M. S.	Graham Court, 116 and Seventh ave.
Canfield, G. F. Prof.	Tu.Th. 11.30	302 L.	32 E. 33
Canfield, J. H. Librarian	Daily 10- 12.30	201 L.	Graham Court, 116 and Seventh ave.
Cardiff, I. D. Asst.	Tu. F. 9.30- 11.30	504 S.	39 W. 117
Carmalt, C. Asst. Dem.		P. & S.	130 E. 36
Carmody, F. X. Lect.	M.W.F. 2.15	507 F.	557 W. 124
Carpenter, G. R. Prof.	Tu. Th. 1.30; S. 10.30	508 F.	137 W. 93
Carpenter, W. H. Prof.	M. W. 2.30; Tu. Th. 1.30	316 U.	253 W. 100
Carr, M. L. Clin. Asst.		V. C.	353 W. 57
Cartwright, O. G. Tr.		H. M. S.	25 Morningside ave.
Castle, E. H. Prof.	Tu. 10.30-11; Th. 3.30-4	320 T.	359 W. 121
Cattell, J. McK. Prof.	Tu. Th. 2.30	412 S.	Garrison, N. Y.
Chambers, V. J. Tutor	Daily, 1.30- 2.30	405 H.	527 W. 124
Chandler, C. F. Prof.	M.W. F. 1.30- 4.30	303 H.	51 E. 54
Cilley, A. H. Clin. Asst.		V. C.	152 E. 34
Clark, J. B. Prof.	M.-W. 2-2.30	204 W.	616 W. 113
Clark, L. P. Clin. Asst.		V. C.	62 W. 58
Closs, Rachel E. Asst.		Sp. S.	94 Lawrence
Coblentz, V., Prof.		Phar.	115 W. 68
Coburn, Bessie M. Tr.		H. M. S.	1230 Amsterdam ave.
Cochran, Katherine M. Tr.		H. M. S.	359 W. 121
Coelos, J. A. Asst.	Tu. Th. 1- 1.30	508 E.	417 W. 117
Cohn, A. Prof.	M.W. 10.30	309 W.	308 W. 94
Cole, F. N. Prof.	M. 2-3	406 C.	
Coley, W. B. Clin. Lect. and Instr.		P. & S.	5 Park ave.
Coll, A. P. Clin. Asst.		V. C.	141 Lexington ave.
Cornell, Grace A. Tutor		T.	33 Alsop, Jamaica, L.I.
Cox, R. Clin. Asst.		V. C.	547 Madison ave.
Cragin, E. B. Prof.		P. & S.	10 W. 50
Craampton, H. E. Prof.	Tu. Th. 9.30 Tu. Th. 2.30	611 S.	201 W. 122

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Crocker, F. B. Prof.	M. W. 10.30-12.30	503 E.	14 W. 45
Cruser, F. V. D. Asst.	Tu. Th. F. 11.30-12.30	506 H. P. & S.	195 Clinton, Brooklyn
Cunningham, R. H. Instr.			201 W. 54
Curtis, C. C. Tutor	Tu. Th. 10-12	502 S.	202 W. 119
Curtis, E. Emer. Prof.			120 Broadway
Curtis, J. G. Prof.		P. & S.	327 W. 58
Dade, C. T. Clin. Asst.		V. C.	68 E. 56
Daniell, Lucetta, Directress Teachers College		T.	1230 Amsterdam ave.
Darrach, W. Asst. Dem.		P. & S.	852 Lexington ave.
Davis, B. Tutor	M. W. 9.30-12.30	210 F. Gym.	509 W. 124
Davis, J. A. Asst.		T.	417 W. 114
Day, Helen M. Tutor	Daily, 9.30-12.30	201 E.	18 W. 19
Day, S. M. Asst.	Tu. F. 1.30-4.30	401 F. V. C.	337 W. 87 200 W. 57
Dayton, H. Clin. Asst.	Tu.-Th. 2.30-4.30; F. 12	605 S.	20 W. 82
Dean, B. Prof.	M. 12.30-1.30	403 B.	565 W. 113
Dederer, Pauline H. Asst.	M.W.F. 1.30-2.30	603 F.	209 W. 97 12 W. 32
Deimel, R. F. Asst.		613 H.	
Delafield, F. Emer. Prof.		401 E.	674 E. 135
Delano, W. A. Tutor		Phar.	115 W. 68
Derleth, W. T. Asst.		P. & S.	839 Madison ave.
Dewey, J. Prof.		P. & S.	123 E. 74
Dickman, G. C., Prof.		H. M. S.	252 W. 104
Ditman, N. E. Instr.	M. 2-3.30; Tu. Th. 3.30-4.30; F.		
Dixon, G. S. Instr.	10.30-11.30	203 T. V. C.	417 W. 118 8 W. 92
Doane, H. F. Tr.	Tu. 11.30-12.30	431 T. P. & S.	500 W. 121 49 W. 57
Dodge, R. E. Prof.		P. & S.	135 W. 73
Dounce, J. W. Clin. Asst.		P. & S.	121 E. 36
Dow, A. W. Prof.	M.W. 12.30-1	323 U.	256 W. 57
Dow, E. L. Dem. and Tutor	M. Tu. Th. F. 11-12.30	H. M. S.	536 W. 114
Dowd, C. N. Instr.			
Draper, W. K. Instr.			
Dunning, W. A. Prof.			
Dutton, S. T. Prof.			
Earle, M. L. Prof.	M. W. 2.30-3.30	209 B.	462 W. 22
Egbert, J. C. Prof.		310 C.	425 W. 146
Ellard, C. H. Tutor	Tu. 9.30-10.30; S. 11.30-12.30	512 H. P. & S.	Great Neck, L. I. 106 E. 62
Emerson, H. Dem.		L.	520 W. 123
Erb, F. C. Sup. Lib.			



NAME	OFFICE HOURS	OFFICE	RESIDENCE
Erb, F. W. Sup. Lib.		L.	520 W. 123
Evans, E. M. Tutor		P. & S	38 W. 48
Falk, M. J. Asst.	Tu. Th. 2-3	505 H.	16 E. 81
Falk, M. S. Instr.	Tu. Th. 10.30- 12.30	401 E.	44 W. 53
Farnsworth, C. H. Adj. Prof.	Tu. F. 2.30- 3.30	118 T.	1230 Amsterdam ave.
Farrand, L. Prof.	Tu. 1.30	513 S.	Bartow, Pelham Park, N. Y.
Fauver, E. Tr.		H. M. S.	332 Lenox ave.
Ferguson, G. A., Prof.		Phar.	115 W. 68
Ferguson, H. B., Instr.		Phar.	115 W. 68
Findlay, W. Tutor	M.-W. 10- 10.30	309 B.	
Fischer, C. S. Clin. Asst.		V. C.	144 E. 38
Fisher, G. F. Bursar	M.-F. 9-4; S. 9-12	108 L.	124 E. 24
Fisher, Laura E. Lect.		T.	68 Marlborough, Bos- ton, Mass.
Fisher, Louise M. Asst.		Sp. S.	41 E. 70
Fiske, T. S. Prof.	M.W.F. 10.30- 11.30	401 C.	1690 Broadway
Fitz-Gerald, J. D., II, Tutor	M. W. 4.30- 5.30	306 W.	
Fletcher, J. B. Prof.	M.W.F. 3.00	511 F.	407 W. 117
Flint, C. P. Instr.		P. & S.	61 W. 48
Floyd, R. Lect.		P. & S.	13 Central Park, W.
Foote, E. M. Instr.		P. & S.	136 W. 48
Forbes, C. Curator		F.	
Foster, N. B. Clin. Asst.		V. C.	104 Madison ave.
Fountain, C. R. Asst.	M.W.F. 11.30 -12.30	303 F.	509 W. 124
Fowler, S. W. Clin. Asst.		V. C.	116 W. 103
Fox, G. H. Prof.		P. & S.	18 E. 31
Fracker, G. C. Asst.	M.W.F. 10.30; 2.30	511 S.	Undercliffe ave., Edge- water, N. J.
Freese, Cecile, Tr.		H. M. S.	353 W. 17
Frissell, L. F. Clin. Asst.		V. C.	113 E. 56
Frothingham, R. Instr.		P. & S.	616 Madison ave.
Fullerton, G. S. Prof.	Absent on leave		
Furst, Clyde, Sec. Teachers College	M.-F. 10-1; 2-4; S. 10-1	106 T.	Lowerre Summit, Yonkers, N. Y.
Gallaudet, B. B. Dem. and Instr.		P. & S.	60 W. 50
Gardner, A. H. Clin. Asst.		V. C.	939 Madison ave.
Geer, Mrs. Cora M. Sec. to Princ. H. M. Elem. Sch.		H. M. S.	Broadway, Kings- bridge
Gerrish, Charlotte B. Tr.		H. M. S.	415 W. 118
Gibney, V. P. Prof.	P. & S.		16 Park ave.
Gibson, L. M. Clin. Asst.		V. C.	157 W. 81
Giddings, F. H. Prof.	Tu. 4.30; F. 2.00	403 L.	150 W. 79

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Gies, W. J. Adj. Prof.		P. & S.	112 W. 78
Gilbert, W. M. Chief Clerk	M.-F. 9-5; S. 9-12	213 L.	364 W. 121
Gildersleeve, Virginia C. Tutor	Tu. 10; Th. 2.30	136 B.	28 W. 48
Gill, Laura D. Dean Barnard College	M. Tu. Th. F. 11-12; Tu. Th. 2-3	B. H. M. S.	425 West End ave. 419 W. 118
Gillmore, Mary B. Tr.			
Gilman, Grace C. Deputy Registrar	M.-F. 9-12; 2-4; S. 9-12	104 T.	532 West End ave.
Glanton, Louise P. Asst.		Sp. S.	94 Lawrence
Goetze, F. A. Supt. of B. & G.	M.-F. 10-11	110 L.	606 W. 113
Gohdes, W. H. Tr.		H. M. S.	417 W. 118
Gold, J. D. Clin. Asst.		V. C.	
Goodhardt, S. P. Clin. Asst.		V. C.	130 E. 64
Goodnow, F. J. Prof.	M. W. 3.30- 4.30	407 L. V. C.	49 Riverside Drive 332 Lexington ave.
Goodridge, F. G. Clin. Asst.			
Gottheil, R. J. H. Prof.	Absent on leave		
Grabau, A. W. Adj. Prof.	Tu. Th. 9.30	101 S.	527 W. 124
Gray, C. Tutor	M. W. F. 1.30 -2	410 C.	206 W. 119
Griffin, O. J. Asst. Sec. College of Pharmacy		Phar.	115 W. 68
Guernsey, R. Tutor	M. W. 3.30-4	304 C.	2754 Broadway
Gumaer, A. H. Instr.	M.-F. 1.30- 2.30	613 H.	70 Oak, Jersey City
Haas, S. V. Clin. Asst.		V. C.	2493 Broadway
Hale, H. E. Asst. Dem.		P. & S.	200 W. 57
Hall, Mrs. Cornelia, Tr.		Sp. S.	510 W. 124
Hall, E. J. Tutor	Daily 9.30-12	206 H.	Passaic, N. J.
Hallock, W. Prof.	M. W. F. 12.30	308 F.	
Hamlin, A. D. F. Prof.	Tu. W. F. 11.30 -12.30	607 H.	105 Morningside ave.
Hammond, Marion, Recorder		T.	
Hansen, Siegfried M. Tr.		H. M. S.	439 Manhattan ave.
Harlow, E. Clin. Asst.		V. C.	13 E. 77
Harpsham, Flora E. Computer	M.-F. 9.30- 3.30	602 F. 605 H.	321 E. 116 646 West End ave.
Harriman, C. A. Instr.		605 E.	West Chester
Harrington, T. H. Tutor	Tu. Th. 10.30	Sp. S.	94 Lawrence
Harris, Clara B. Asst.		P. & S.	130 W. 59
Hart, T. S. Instr.		P. & S.	61 W. 49
Hartley, F. Prof.			
Hathaway, C. M., Jr. Tutor	M. F. 10.30; Tu. Th. 4.15	502 F.	131 E. 43
Haviland, C. F. Clin. Asst.		V. C.	Manhattan State Hos'l. Ward's Is.
Hawkes, F. Instr.		P. & S.	42 E. 26
Hawley, Harriet, Sec. to Dean Teachers College		T. T.	1230 Amsterdam ave.
Haworth, P. L. Instr.		P. & S.	107 W. 55
Hayden, J. R. Prof.			10 E. 43
Hayes, A., Jr. Tutor	Tu. Th. 3.30-4	305 L.	

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Hazen, T. E. Tutor	F. 9.30	320 B.	552 W. 113
Healy, W. P. Instr.		P. & S.	57 W. 53
Hendren, L. L. Asst.		210 F.	509 W. 124
Herter, C. A. Prof.		P. & S.	819 Madison ave.
Hervey, W. A. Adj. Prof.	Tu. 10.30; W. 3.30; F. 2.30	315 U.	607 W. 138
Higbie, H. H. Asst.	M.-F. 9.30- 12.30	304 E.	223 W. 105
Hinrichs, G. Conductor of Music	W. 3.30-4.30	204 So.	569 E. 178
Hirst, Gertrude M. Tutor		212 B.	1230 Amsterdam ave.
Hirth, F. Prof.	Tu. 12.30	305 U.	501 W. 113
Hiss, P. H., Jr. Adj. Prof.		P. & S.	262 W. 83
Hodenpyl, E. Adj. Prof.		P. & S.	16 W. 52
Hodge, Rev. R. M. Lect.		T.	700 Park ave.
Hodgson, J. H. P. Clin. Asst.		V. C.	29 Washington Sq.
Holbrook, R. T. Tutor	M. W. 11.30- 12.30	111 B.	421 W. 117
Holden, W. A. Instr.		P. & S.	43 W. 48
Holt, L. E. Prof.		P. & S.	14 W. 55
Hook, E. A. Tutor	Tu.Th. 11.30- 12.30	410 C.	131 W. 137
Hooker, W. B. Asst.		507 F.	
Hotchkiss, Caroline W. Tr.		H. M. S.	430 W. 118
Hotchkiss, L. W. Clin. Lect. and Instr.		P. & S.	59 W. 48
Howe, H. M. Prof.	Tu. 2.30-3.30	104 H.	27 W. 73
Howland, J. Instr.		P. & S.	49 E. 53
Hubbard, S. D. Clin. Asst.		V. C.	143 W. 103
Hughes, P. Asst.	M.W. 1.30	419 L.	15 Rugby Road, Bklyn.
Humphries, H. R. Clin. Asst.		V. C.	262 W. 83
Hunt, E. L. Clin. Asst.		V. C.	71 E. 52
Huntington, G. S. Prof.		P. & S.	240 W. 76
Hurlbut, S. A. Lect.	M.W.F. 10.30 -11.30	112 B.	204 W. 92
Hutchinson, Mary E. Prin. Tr. Sch. Sloane Maternity Hospital		S. M. H.	457 W. 59
Hutton, F. R. Prof. and Dean Schools of Applied Science	First term- M.-F. 10.30; Second term- 11.30	308 H. T.	319 W. 107 1230 Amsterdam ave.
Hyde, Mary B. Instr.			
Inglis, A. J. Tr.		H. M. S.	25 Morningside ave.
Jackson, A. V. W. Prof.	M. 10.20	306 U.	16 Highland place, Yonkers, N. Y.
Jackson, F. W. Instr.		P. & S.	68 W. 55
Jackson, G. T. Instr.		P. & S.	15 E. 29
Jackson, H. A. Asst.	M.-F. 1.30-5	409 H.	182 St. Nicholas ave.
Jackson, J. A. Clin. Asst.		V. C.	344 W. 85
Jacobi, A. Emer. Prof.			19 E. 47
Jacoby, H. Prof.	Tu. W. 9.30- 11.30	608 F.	333 W. 76

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Jaeger, C. H. Clin. Asst.		V. C.	24 W. 59
James, W. B. Prof.		P. & S.	17 W. 54
Jardine, J. Asst.		H. M. S.	Edgewater, N. J.
Jelliffe, S. E. Prof. and Instr.		P. & S.	64 W. 56
Jessup, D. S. D. Asst. and Medical Visitor	Daily 5-6 and by appointment		410 West End ave.
Johnson, A. S. Instr.	M. W. 2-3	406 W.	521 W. 111
Jones, A. L. Tutor	Tu. Th. 2.30	416 L.	509 W. 124
Jordan, D. Instr.	Tu. 11.30	301 W.	315 W. 94
Joët, C. H. Tutor	Tu. 10.30; Th. 1.30	505 H.	Roselle, N. J.
Julien, A. A. Curator	Daily 10-12	303 S.	505 W. 124
Kasner, E. Tutor	Tu. Th. 10.30	309 B.	121 E. 114
Keator, H. M. Asst. Dem.		P. & S.	852 Lexington ave.
Keith, J. S. Asst.		Gym.	143 W. 122
Keller, Eleanor, Tutor		B.	417 W. 118
Kellicott, W. E. Tutor	Tu. Th. 1.30- 2.30; F. 11.30	402 B.	439 W. 123
Kemp, J. F. Prof.	Tu. Th. 2.30- 3.30	403 S.	211 W. 139
Kenneson, T. D. Lect.	W. F. 9-9.30	305 L.	125 W. 47
Kenyon, J. H. Clin. Asst.		V. C.	47 W. 44
Keppel, F. P. Sec.	M.-F. 10-12; 2-4; S. 10- 12	213 L.	239 E. 17
Keppler, C. R. Clin. Asst.		V. C.	24 W. 59
Keyser, C. J. Prof.	Tu. Th. 10.30	407 C.	510 W. 124
Kind, J. L. Asst.	M. 10.30; F. 9.30	310 U.	429 W. 117
King, W. W. Tr.		H. M. S.	3134 Broadway
Kinne, Helen, Prof.	M. 2.30; M. F. 10.30	417 T.	8 Morningside ave.
Kinnicutt, F. P. Prof.		P. & S.	39 E. 35
Kirchwey, Clara B. Tr.		H. M. S.	908 St. Nicholas ave.
Kirchwey, G. W. Prof. and Dean School of Law		206 L.	908 St. Nicholas ave.
Kirchwey, Mary F. Tr.		H. M. S.	908 St. Nicholas ave.
Kliene, R. J. H. Asst.			12 Leland ave., New Rochelle, N. Y.
Knapp, A. H. Prof.		P. & S.	26 W. 40
Knapp, C. Adj. Prof.	M. W. F. 1.30- 2.30	111 B.	1773 Sedgwick ave.
Knapp, C. B. Asst.		P. & S.	238 W. 73
Knapp, H. Emer. Prof.			26 W. 40
Knox, Alice A. Asst.	Tu. 12.30- 1.30	312 B.	417 W. 114
Krapp, G. P. Lect.	M. W. 10.30	509 F.	417 W. 114
Kress, M. K. Adj. Prof.	M.-F. 2.30- 4.30	610 H.	272 W. 107
Krystall, B. E. Clin. Asst.		V. C.	53 E. 86
Kurtz, E. L. Instr.	M. W. F. 9.30- 10.30	405 E.	
La Petra, L. E. Instr.		P. & S.	58 W. 58



NAME	OFFICE HOURS	OFFICE	RESIDENCE
Lambert, A. V. S. Instr.		P. & S.	126 E. 39
Lambert, S. W. Prof. and Dean Sch. of Medicine		P. & S.	130 E. 35
Lamme, M. A. Asst.	Tu.-F. 1.30-4.30	106 S.	841 Lexington ave.
Larkin, J. H. Instr. and Curator		P. & S.	498 W. 130
Latham, Azubah J. Lect.		T.	
Latham, Helen, Asst.		H. M. S.	416 W. 118
Lathrop, Susan A. Tr.		H. M. S.	
Laubach, S. T. Tutor	M. W. 10.30-11.30	604 E.	591 W. 145
Laudy, L. H. Tutor	Daily, 9-5	H.	15 W. 65
Laufer, B. Lect.			
Leaming, E. Instr.		P. & S.	117 W. 84
Lee, F. S. Prof.		P. & S.	120 E. 65
Lefferts, G. M. Emer. Prof.			212 Madison ave.
Leshure, J. Clin. Asst.		V. C.	153 Convent ave.
Levy, D. H. Clin. Asst.		V. C.	134 W. 104
Lewinson, L. J. Asst.	M.-F. 9.30-12.30	505 E.	129 E. 95
Lewis, Mary H. Tr.		H. M. S.	
Lewis, R., Jr. Instr.		P. & S.	48 W. 40
Liggett, Mrs. N. W. Bursar Barnard College	M.-F. 10-4	B.	
Lindquist, Tina E. Med. Asst.		H. M. S.	14 Irving pl.
Ling, G. H. Tutor	M.W.F. 9.30-10.30	408 C.	168 W. 121
Lloyd, F. E. Adj. Prof.	Tu.Th. 11.30	304 T.	272 Manhattan ave.
Lockwood, G. R. Instr.		P. & S.	18 E. 52
Lodge, G. Prof.	M. W. 2.30-3.30; Th. 11-12	228 T.	1161 Amsterdam ave.
Loiseaux, L. A. Adj. Prof.	Absent on leave		
Loomis, Louise R. Lect.	Tu. 11.20-12; Th. 2-2.30	340 B.	414 W. 118
Lord, H. G. Prof.	W. F. 10.30-11.30	416 L.	618 W. 113
Loughran, R. L. Clin. Asst.		V. C.	824 Lexington ave.
Lovell, E. B. Adj. Prof.	F. 9-10.30	508 E.	235 W. 102
Lucke, C. E. Instr.	W.F. 10.30	304 E.	166 W. 122
Luquer, L. McL. Adj. Prof.	W. 2-4	306 S.	321 W. 80
Lyle, H. H. M. Clin. Asst.		V. C.	301 E. 19
McBurney, C. Prof.		P. & S.	28 W. 37
McCastline, W. H. Asst. Director		H. M. S.	108 E. 81
McClelland, J. F. Instr.	M.W.F. 10.30-11.30	405 E.	457 W. 123
McConnell, R. H. Clin. Asst.		V. C.	42 W. 97
McCosh, A. J. Clin. Lect.		P. & S.	16 E. 54
McCoy, J. J. Clin. Asst.		V. C.	139 W. 97
McCrea, N. G. Prof.	M.W. 10.30-11.20	309 C.	417 W. 118
McEntee, E. J. Clin. Asst.		V. C.	93 Lee ave., Brooklyn
McGregor, J. H. Lect.	W.F. 1.30-2.30	610 S.	507 W. 124
McLane, J. W. Emer. Prof.			51 W. 38

NAME	OFFICE HOURS	OFFICE	RESIDENCE
McMahon, Kate, Princ. H. M. Kindergarten		H. M. S.	1230 Amsterdam ave.
McMurry, F. M. Prof.	Absent on leave		
McRae, Frances E. Tr.		H. M. S.	7 W. 101
McWhood, L. B. Adj. Prof.	Th. 2.30	206 So.	511 W. 112
McWilliams, C. A. Instr.		P. & S.	50 E. 53
MacAlarney, Emma L. Tr.		H. M. S.	67 St. Nicholas ave.
Maclay, J. Adj. Prof.	Tu. Th. 10.45-11.20	404 C.	600 W. 114
MacLear, Martha, Sec. to Princ.			
H. M. High Sch.		H. M. S.	457 W. 123
MacNary, E. E. Tr.		H. M. S.	1345 Amsterdam ave.
MacVannel, J. A. Adj. Prof.	M. W. 2.30-3.30; S. 10.30-11.30	314 T.	2441 Seventh ave
Main, I. F. Sec. Coll. of Pharmacy		Phar.	44 Hudson
Mallett, G. H. Clin. Asst.		V. C.	144 W. 71
Maltby, Margaret E. Adj. Prof.	M. W. 3.30-4	240 B.	567 W. 113
Mansfield, W. Instr.		Phar.	115 W. 68
Manson, L. S. Clin. Asst.		V. C.	2000 Madison ave
March, Maud, Instr.		T.	453 W. 123
Marinoni, A. Lect.	M. W. 11.30-12.30	307 W.	
Markoe, F. H. Prof.		P. & S.	15 E. 49
Marshall, Florence M. Tr.		H. M. S.	
Martin, W. Instr.		P. & S.	68 E. 56
Mason, D. G. Lect.		T.	592 W. 111
Mathews, F. S. Instr.		P. & S.	62 W. 50
Mathews, B. Prof.	Tu. Th. 1-1.30	502 F.	681 West End ave.
Mayer, R. E. Adj. Prof.	Daily 9.30-12	602 E.	149 Prospect ave., Mt. Vernon, N. Y.
Meara, F. S. Tutor		P. & S.	400 West End ave.
Meeker, H. D. Clin. Asst.		V. C.	41 W. 71
Mehan, Mrs. J. D. Instr.		T.	70 Carnegie Hall
Menut, Eugenie, Tr.		H. M. S.	560 Park ave.
Merrill, Valeria I. Asst. Lib.	H. M. S.	H. M. S.	418 W. 118
Messer, Ida C. Tr.		Sp. S.	94 Lawrence
Metzger, F. J. Asst.	Daily 2-4.30	303 H.	516 Manhattan ave.
Meyer, Anna E. H. Sec. of Barnard College	M.-F. 9.30-12.30; 1.30-4.30; S. 9.30-12	B.	Park Hill, Yonkers, N. Y.
Meyer, G. M. Asst.		P. & S.	59 E. 77
Meyers, R. A. Sec. Com. on Employment for Students	M.-F. 9-5; S. 9-12	213 L.	38 Bleecker
Meylan, G. L. Adj. Prof. and Med. Direct. of Gym.	M.-F. 2.30-4.30; S. 10-11	Gym.	420 W. 160
Michaelis, A. Clin. Asst.		V. C.	173 E. 95
Miller, A. M. Instr.		P. & S.	341 W. 58
Miller, D. S. Lect.	S. 9.30-10	409 S.	312 S. 10, Philadelphia
Miller, E. Clin. Asst.		V. C.	231 E. 60
Miller, E. H. Prof.	Tu. W. F. S. 10-10.30	507 H.	312 Manhattan ave.
Miller, J. A. Instr.		P. & S.	550 Park ave.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Miller, S. O. Tutor	M.-F. 1.30-2.30	603 E. Sp. S.	West Nyack, N. Y. 600 W. 125
Mills, Harriette, Tr.			
Mitchell, H. B. Tutor	M.-F. 11.30-12	402 C.	Linden Hill, Flushing, N. Y.
Mitchell, S. A. Tutor	M. W. 10.30-11.30	606 F.	317 W. 121
Mitchell, W. A. Asst.	Tu. 10.30	303 F. T.	227 W. 120
Monroe, P. Prof.			
Montague, W. P. Tutor	Tu.Th. 3.30-4.30	416 L. T.	607 W. 115 430 W. 118
Monté, L. G. Instr.			
Moore, H. L. Adj. Prof.	Tu.Th. 2.30	202 W.	501 W. 120
Moore, J. B. Prof.	M.-F. 9-4	411 L.	524 W. 150
Morgan, J. L. R. Adj. Prof.	M.W.F. 10.30-11.30	411 H.	New Brunswick, N. J.
Morgan, T. H. Prof.	M.-F. 12-1	S.	433 W. 117
Moses, A. J. Prof.	Daily 9.30-10.30	307 S.	452 W. 144
Muller, H. F. Tutor	M. W. 11.30	408 W.	325 W. 34
Munroe, H. S. Prof.	M. W. F. 9.30; Tu. 10.30	409 E.	501 W. 120
Neilson, W. A. Adj. Prof.	M.W. 2.30	509 F.	419 W. 118
Neish, A. C. Tutor	Daily 9.30-12; 2-4.30	418 H. H. M. S.	203 W. 113
Neitz, J. D. Tr.			
Nelson, A. H. Asst.	M.Tu.F.S. 9.30-12.30	401 F. L. Phar.	414 W. 118 579 W. 161 115 W. 68
Nelson, C. A. Head Reference Lib.			
Nestell, R. J. Instr.			
Nichols, E. F. Prof.	Absent on leave		
Noble, Helen G. Asst.		T.	432 Hoboken ave., Jersey City, N. J.
Norrie, V. H. Instr.		P. & S.	21 W. 37
Norsworthy, Naomi, Tutor		T.	234 W. 122
Nourse, Lilla A. Tr.		H. M. S.	
Noyes, W. Instr.		T.	426 W. 124
Oastler, F. R. Instr.		P. & S.	126 W. 59
Odell, G. C. D. Adj. Prof.	M.W. 2.30	505 F.	44 W. 44
Odell, L. S. Tr.		H. M. S.	347 Lafayette ave., Brooklyn
Oehler, J. Adj. Prof.		Phar.	115 W. 68
Oertel, H. Dem.		P. & S.	30 W. 44
O'Grady, Caroline G. Instr.		T.	1230 Amsterdam ave.
Olcott, G. N. Adj. Prof.	M. 10.30-11.30	308 C.	438 W. 116
Opdyke, Agnes, Acting Registrar of Barnard College	M.-F. 9.30-1.30; 2.30-4.30	B.	418 W. 118 30 Broad
Ordronaux, J. Emer. Prof.			
Osborn, H. F. Prof.	Tu. 12-1	608 S.	
Osgood, H. L. Prof.	Tu.Th. 4.30	320 U.	526 W. 150
Ostrander, F. C. Lect.	M. W. 11.30	303 W.	168 W. 121
Owen, Katherine B. Asst.		H. M. S.	1230 Amsterdam ave.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Page, C. H. Lect.	Absent on leave		201 W. 101
Painter, H. M. Prof.		P. & S.	62 W. 55
Parker, H. C. Adj. Prof.	M.-F. 2.30-4.30	201 F.	21 Fort Greene pl., Brooklyn
Parsons, Mrs. Elsie C. Lect.	Tu. 1.30-2.30	308 B.	112 E. 35
Patterson, H. S. Tutor and Asst.		P. & S.	51 W. 58
Peabody, Mary G. Tr.		H. M. S.	1230 Amsterdam ave
Pearson, H. C. Princ. H. M. Elem. Sch.		H. M. S.	501 W. 120
Peck, C. H. Instr.		P. & S.	30 W. 50
Peck, H. T. Prof.	Tu. 4.30; W. 10.30	301 C.	Stamford, Conn.
Peele, R. Prof.	Tu.Th. 10.30-12.30	408 E.	351 W. 114
Pegram, G. B. Tutor		201 F.	
Pellew, C. E. Adj. Prof.	Tu. F. S. 12.30-1.30	416 H. T.	51 E. 54
Peniston, Caroline L. Asst.			82 Lexington ave.
Periam, Annina, Asst.	M.W. 3.30	212 B.	55 Roseville ave., Newark, N. J.
Perry, E. D. Prof. and Dean Sch. of Philos.	M. W. 2-2.30; 3.30-4.30	304 C.	542 W. 114
Peters, W. H. G. Asst. Bursar		P. & S.	383 First, Brooklyn
Peterson, F. Clin. Prof.		P. & S.	4 W. 50
Pfister, J. C. Instr.	M.W.F. 12.30-1.30; F. 2.30-3.30	615 F.	240 Sixth ave. (Roseville), Newark, N. J.
Place, Helen, Tr.		H. M. S.	229 W. 101
Pool, E. H. Instr.		P. & S.	57 W. 45
Poor, C. L. Prof.	Tu.Th. 10.30-11.30	610 F.	4 E. 48
Poore, C. T. Clin. Lect.		P. & S.	43 W. 53
Popper, W. Lect.	M.W. 2.30-3.30	309 U.	260 W. 93
Posner, E. R. Tutor		P. & S.	230 W. 104
Potter, N. B. Tutor		P. & S.	9 W. 35
Pratt, Isabelle L. Appointment Secretary		T.	221 W. 104
Pratt, Marion R. Sec. to Supt. H. M. S.		H. M. S.	221 W. 104
Prentice, A. C. Clin. Asst.		V. C.	155 W. 46
Prescott, Harriet B. Sup. Lib.		L.	17 Livingston pl.
Prettyman, V. Princ. H. M. High Sch.		H. M. S.	Park Hill, Yonkers, N. Y.
Prince, J. D. Prof.	Th. 11.00	308 U.	15 Lexington ave.
Proben, C. J. Instr.		P. & S.	970 Lexington ave.
Prout, T. P. Clin. Asst.		V. C.	204 W. 55
Prudden, T. M. Prof.		P. & S.	160 W. 59
Pupin, M. I. Prof.		203 E.	
Putnam, C. R. L. Asst. Dem.		P. & S.	121 E. 38
Rand, Edith E. Tr.		H. M. S.	223 W. 106
Rea, Matilda G. Asst.		T.	30 W. 25
Redfield, H. S. Prof.	Tu.-F. 9.30-10.30	414 L.	567 W. 113
Rees, J. K. Prof.	Absent on leave		1 W. 72
Reid, D. B. Asst.		Gym.	437 W. 59



NAME	OFFICE HOURS	OFFICE	RESIDENCE
Reimer, Marie, Instr.	Tu.Th.F. 1.30- 2.30	438 B.	417 W. 118
Remy, A. F. J. Instr.	Tu. Th. 2.30- 3.30	311 U.	112 W. 137
Reynolds, J. E. Lect.	M.F. 4.30-5	305 L.	2881 Broadway
Reynolds, W. S. Clin. Asst.		V. C.	54 W. 94
Richard, E. D. Lect.	Tu. Th. S. 11.30- 12.30	203 W.	5 W. 63
Richards, A. N. Instr.		P. & S.	361 W. 57
Richards, C. R. Prof.	Tu. 11-12.30; F. 3.30-4.30	122 T.	239 W. 103
Richards, H. M. Adj. Prof.	M.-F. 10.30- 11.30	316 B.	307 W. 93
Richards, J. D. Clin. Asst.		V. C.	44 W. 49
Riggs, A. F. Asst.		P. & S.	48 E. 30
Robbins, Ida E. Tr.		H. M. S.	417 W. 118
Robinson, J. H. Prof.	Tu. Th. 10-10.30; W. 3.30-4	323 U.	567 W. 113
Rogers, A. F. Tutor	Tu. Th. S. 10.30- 11.30	308 S.	2248 Seventh ave.
Rogers, Lillian E. Tr.		H. M. S.	430 W. 118
Rouillion, L. Adj. Prof.	Tu.Th. 4.30	327 T.	Kingsbridge Terrace
Rühner, C. Prof.	W. 2.30	203 So.	421 W. 117
Runyan, Mary D. Prof.	Absent on leave		
Rusby, H. H. Prof. and Dean, College of Pharmacy		Phar.	115 W. 68
Russell, J. E. Prof. and Dean Teachers College	M.-F. 11.30- 12.30	T.	500 W. 121
Russell, J. I. Clin. Asst.		V. C.	839 Madison ave.
Russell, Mabel C. Asst.		Sp. S.	94 Lawrence
Russell, Martha M. Supt. Sioane Maternity Hospital		S. M. H.	457 W. 59
Ryder, G. H. Instr.		S. M. H.	457 W. 59
Ryland, Marion G. Asst.		H. M. S.	418 W. 118
Sachs, J. Prof.	Tu. Th. 4-4.30; S. 10-10.30	220 T.	149 W. 81
Sage, Elizabeth, Tutor		T.	2337 Broadway
Saville, M. H. Prof.	M. W. 10- 10.30	405 S.	326 W. 85
Schenck, Aletta V. W. Asst.		T.	151 W. 70
Schmitt, A. E. Asst. Instr.		P. & S.	103 E. 60
Schneider, F. A. Clin. Asst.		V. C.	2441 Seventh ave.
Schulte, H. von W. Asst. Dem.		P. & S.	295 Central Park, W
Schüssler, Amy, Princ. Sp. S.		Sp. S.	558 W. 182
Scott, J. B. Prof.	M. F. 10.30- 11.30	304 L.	400 W. 153
Scott, Miriam F. Neighborhood Worker Sp. S.		Sp. S.	168 W. 123
Seager, H. R. Adj. Prof.	Tu. Th. 2.30- 3.30	408 L.	635 W. 115
Secrest, Stella W. Tr.		H. M. S.	1230 Amsterdam ave.
Seibert, Jeannette R. Asst.		T.	
Seiberth, P. Asst.		318 U.	1161 Amsterdam ave.
Seligman, E. R. A. Prof.	M. W. 2.30- 3.30	409 L.	324 W. 86

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Sever, G. F. Adj. Prof.		504 E.	348 Central Park, W.
Shearer, L. H. Asst. Dem.		P. & S.	102 E. 57
Sheldon, W. H. Tutor	Tu. Th. 11.30- 12.30	416 L.	412 W. 115
Shepherd, W. R. Instr.	M. W. 3.30	321 U.	318 W. 84
Sherman, F. D. Prof.	M. W. F. 10.30- 11.30	601 H.	220 W. 107
Sherman, H. C. Instr.	M. W. F. 10.30	509 H.	529 W. 124
Shotwell, J. T. Instr.	Absent on leave		
Shrady, A. M. Instr.		P. & S.	1 W. 68
Sills, K. C. M. Tutor	M. W. 10.00	507 F.	457 W. 123
Silver, L. M. Clin. Asst.		V. C.	103 W. 72
Simkhovitch, V. G. Lect.	M.-F. 10-12	307 L.	26 Jones
Simpson, W. K. Prof.		P. & S.	952 Lexington ave.
Skarstrom, W. Instr.		Gym.	420 W. 160
Sleffel, C. C. Instr.		32 T.	509 W. 124
Sloane, W. M. Prof.	W. 2.30	319 U.	105 E. 69
Smallwood, J. C. Asst.	M.-F. 9.30- 12.30; 1.30- 5.30	308 E.	120 N. Columbus ave. Mt. Vernon, N. Y.
Smith, C. H. Asst.		P. & S.	2881 Broadway
Smith, D. E. Prof.	Tu. Th. 9.30	212 T.	250 W. 88
Smith, E. R. Ref. Librarian, Avery Library		A. L.	
Smith, F. C. Clin. Asst.		V. C.	351 W. 51
Smith, Munroe, Prof.	W. F. 2.30	409 L.	152 E. 35
Snelling, G. T. Instr.	M. W. 10.30- 11	602 H.	56 W. 33
Solley, F. P. Tutor		P. & S.	33 W. 53
Sour, B. Clin. Asst.		V. C.	68 W. 97
Speranza, C. L. Prof.	Tu. Th. 3.30	304 W.	1185 Lexington ave.
Spingarn, J. E. Adj. Prof.	M. W. 11.00	401 W.	118 E. 58
Spitzka, E. A. Asst. Dem.		P. & S.	66 E. 73
Sprague, S. E. Clin. Asst.		V. C.	71 W. 55
Starr, M. A. Prof.		P. & S.	5 W. 54
Stephens, F. Instr.		P. & S.	
Stone, H. F. Adj. Prof.	W. F. 11.30	302 L.	501 W. 120
Stone, W. S. Instr.		P. & S.	41 W. 71
Stoughton, B. Adj. Prof.	Tu. Th. 1.30- 2.30	104 H.	319 W. 94
Strong, C. A. Prof.		409 S.	Lakewood, N. J.
Strong, O. S. Instr.		P. & S.	507 W. 124
Sumner, A. E. Instr.		P. & S.	127 W. 58
Surette, T. Lect.		T.	40 W. 9
Sutherland, Louise C. Tutor		T.	1230 Amsterdam ave.
Suzzallo, H. Lect.		T.	
Swart, C. T. Asst.	Daily 9.30- 12.30	304 E.	226 S. Second ave., Mt. Vernon, N. Y.
Swenson, J. A. Asst.	M.-F. 9.30- 11.30	409 C.	131 W. 137
Swift, G. M. Instr.		P. & S.	20 W. 55
Sykes, F. H. Director Extension Teaching	Tu. Th. F. S. 11.00	217 T.	Lowerre Summit Park, Yonkers, N. Y.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Taylor, A. R. Tr.		H. M. S.	76 Riggs pl., So. Orange, N. J.
Taylor, A. S. Asst. Instr.		P. & S.	152 W. 57
Taylor, H. C. Instr.		P. & S.	24 W. 50
Terry, C. T. Prof.	M. Tu. Th. F. 4.15-4.30; 5.30-6		
Thacher, J. S. Prof.		414 L. P. & S.	23 E. 77 839 Madison ave.
Thomas, C. Prof.	Tu. Th. 10.30- 11.30	312 U.	Riverside Dr. and 115
Thompson, J. F. Asst.	M. W. F. 1.30- 2.30	102 H.	21 First pl., Bklyn.
Thorndike, E. L. Prof.	M. W. 10.30; 1.30-2.30	325 T. P. & S.	104 E. 39
Thurber, S. W. Instr.		V. C.	312 W. 51
Todd, G. W. Clin. Asst.	Tu. Th. 11.30	302 W.	824 West End ave.
Todd, H. A. Prof.	Tu. Th. 11.30	113 B.	273 W. 138
Tombo, R., Sr. Tutor			
Tombo, R., Jr. Adj. Prof. and Registrar	Tu. Th. 9.30- 11.30; 3.30- 4.30	109 L.	619 W. 138
Tonks, O. S. Lect.	M.-F. 2.30- 3.30	306 C.	417 W. 114
Toussaint, C. A. Asst.	M.-F. 9.30- 12	404 C.	3688 Boulevard, Jersey City, N. J.
Townsend, F. Tutor	Tu. Th. 9.30- 10.30	505 E.	51 E. 55
Trent, W. P. Prof.	Th. 12.30	502 F.	279 W. 71
Trowbridge, A. Adj. Prof.	M. Th. 10.30- 11.30	604 E.	811 St. Nicholas ave.
Trowbridge, C. C. Instr.	Daily, 10.30- 11.30	401 F.	St. Anthony Hall, Riverside Dr. and 116
Tucker, S. A. Tutor		421 H.	155 E. 61
Tufts, F. L. Instr.	M. W. F. 11.30- 12.30	408 F.	509 W. 124
Turnure, P. R. Instr.		P. & S.	55 W. 49
Tuttle, G. A. Dem.		P. & S.	237 W. 44
Tyson, H. H. Instr.		P. & S.	47 W. 51
Uhlig, W. C. Asst.		515 H.	242 Halsted, E. Orange N. J.
Underhill, Laura, B. Tr.		H. M. S.	142 W. 104
Underwood, L. M. Prof.	M. 10-12	506 S.	Redding, Conn.
Upham, Mary C. Tr.		H. M. S.	1230 Amsterdam ave.
Upton, C. B. Tr.		H. M. S.	500 W. 121
Vail, Mary B. Instr.		T.	533 W. 124
Valentine, Laura C. Asst.		Sp. S.	94 Lawrence
Van Amringe, J. H. Prof. and Dean Columbia College	W. F. 1.30	205 C.	859 Seventh ave.
Van Arsdale, May B. Instr.		H. M. S.	457 W. 123
Van De Water, Rev. G. R. Chaplain	M.-F. 9.30- 10.30	201 W	7 W. 122

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Van Wagenen, C. D. Clin. Asst.		V. C.	15 E. 48
Van Zandt, Margaret Sup. Lib.		L.	415 W. 118
Vogel, K. M. Asst.		P. & S.	80 E. 55
Volk, W. Lect.		T.	
Voorhees, J. D. Lect.		P. & S.	150 W. 59
Vorisek, A. Instr.		Phar.	115 W. 68
Vosburgh, A. S. Asst. Dem.		P. & S.	40 W. 88
Vulté, H. T. Adj. Prof.	Tu. Th. 3.30	400 T.	33 Park ave., New Rochelle, N. Y.
Wadsworth, A. B. Instr.		P. & S.	112 W. 55
Walker, J. B. Clin. Lect.		P. & S.	33 E. 33
Wallace, C. Clin. Asst.		V. C.	213 W. 79
Waller, N. B. Clin. Asst.		V. C.	1074 Madison ave.
Ward, F. E. Organist	M.-F. 9-9.30	Ea.	Rye, N. Y.
Ware, W. R. Emer. Prof.			Milton, Mass.
Warren, C. P. Tutor		602 H.	31 W. 12
Watterson, Ada, Tutor		T.	153 W. 84
Weick, C. W. Instr.		119 T.	507 W. 124
Weir, R. F. Prof.		P. & S.	11 E. 54
Weiser, Lucy H. Tr.		T.	417 W. 118
Welker, W. H. Asst.		P. & S.	123 W. 63
Welles, Katherine, Tr.		H. M. S.	41 W. 76
Wells, J. S. C. Instr.	M. Tu. Th. F.		
	S. 1.30-4.30	515 H.	252 W. 91
Wheeler, E. B. Asst.		201 F.	525 W. 123
Wheeler, J. R. Prof.	Absent on leave		
Wheelock, Elizabeth M. Tr.		H. M. S.	430 W. 118
Whitin, E. S. Neighborhood Worker, Sp. S.		Sp. S.	94 Lawrence
Whiting, J. R. Instr.		P. & S.	120 W. 55
Whitman, R. Instr.		P. & S.	283 Lexington ave.
Whittemore, Laura B. Tr.		H. M. S.	8 Morningside ave.
Wilcox, H. B. Asst.		P. & S.	43 E. 58
Williams, L. R. Clin. Asst.		V. C.	839 Madison ave.
Williams, P. H. Clin. Asst.		V. C.	22 E. 48
Williams, R. H. Tr.		H. M. S.	527 W. 124
Williams, W. R. Tutor		P. & S.	Hotel San Remo
Wills, A. P. Instr.	Tu. Th. 2-3	603 F.	Bretton Hall, B'way and 86
Wilson, E. B. Prof.	Tu.-F. 11-12	609 S.	
Wilzin, I. N. Clin. Asst.		V. C.	2412 Seventh ave.
Winchester, Mariam C. Tr.		H. M. S.	Hotel Endicott, Columbus ave. and 81
Wissler, C. Lect.	Tu. 10.30-11.30	405 S.	528 W. 123
Witmer, A. F. Clin. Asst.		V. C.	
Wood, F. C. Adj. Prof.		P. & S.	205 W. 57
Wood, T. D. Prof.	Absent on leave		
Woodbridge, F. J. E. Prof.	M. W. 3.30	420 L.	606 W. 115
Woodhull, J. F. Prof.	Tu. Th. S.		
	10.30-11.30	413 T.	135 Caryl ave., Yonkers, N. Y.
Woodward, B. D. Prof.	M. 12.30	114 B.	Monroe, N. Y.
Woodward, R. S. Prof. and Dean Sch. of Pure Science	M. W. F. 11.30-12.30	406 F.	408 W. 145



NAME	OFFICE HOURS	OFFICE	RESIDENCE
Woodworth, R. S. Instr.	M. W. 11.30-12.30	409 S.	190 W. 100
Woolman, Mrs. Mary S. Prof.	Tu. 3.30; Th. 10.30	420 T. 308 E.	21 W. 101
Woolson, I. H. Adj. Prof.		Sp. S.	94 Lawrence
Woolston, H. Direc. Neighborhood Work, Sp. S.		V. C.	35 W. 45
Wootton, H. W. Clin. Asst.		V. C.	28 W. 105
Yard, A. B. Clin. Asst.			
Yates, W. H. Tutor	Daily, 9.00	509 E.	309 W. 128
Yohannan, A. Lect.	M. W. 1-2	404 W.	321 W. 118
Young, C. H. Adj. Prof.	W. 3.30-4.30	306 C.	312 W. 88
Zerbe, Margaret M. Asst.		T.	129 W. 120

## DIRECTORY OF STUDENTS

The italic letter following the name indicates the school in which the student is primarily registered—as follows:

<i>c</i> College	<i>pl</i> School of Political Science
<i>l</i> School of Law	<i>s</i> Schools of Mines, Chemistry, and Engineering
<i>m</i> School of Medicine	<i>b</i> Barnard College
<i>p</i> School of Pure Science	<i>t</i> Teachers College
<i>ph</i> School of Philosophy	<i>f a</i> Fine Arts (Architecture and Music)

The numbers 1, 2, 3, and 4 preceding these letters indicate the class; sp, special student; gr, graduate student in the professional schools.

The names of women are printed in *italics*.

Aaron, A. <i>pl</i>	77 Quincy, Passaic, N. J.	Albertson, W. N. <i>f a</i>	483 North Grove, East Orange, N. J.
Abbot, J. W. <i>t</i>		Alexander, E. R. <i>i s</i>	608 Madison, Bklyn.
Abbott, G. <i>3 l</i>	1230 Amsterdam ave. 500 W. 121	Alexander, I. <i>i b</i>	230 W. 99
Abelow, S. P. <i>4 t</i>	74 Sumner ave., Bklyn.	Alexander, L. H. <i>h</i>	543 W. 141
Abelsky, M. J. S. <i>pl</i>	18 Market	Alexander, T. M. <i>i c</i>	764 St. Nicholas ave.
Abraham, B. <i>3 l</i>	242 E. 108	Alexander, W. A. <i>i s</i>	608 Madison, Bklyn.
Abrams, Le R. <i>p</i>	193 & Decatur	Allan, A. C. <i>3 t</i>	1230 Amsterdam ave.
Abrams, S. D. <i>3 m</i>	Lawrence, L. I.	Allen, A. B. <i>4 t</i>	430 W. 118
Abrams, W. L. <i>2 m</i>	157 W. 64	Allen, C. <i>3 s</i>	202 W. 103
Abrons, H. <i>2 m</i>	116 E. 102	Allen, E. <i>i b</i>	Hotel San Remo
Aburatani, J. <i>pl</i>	700 Park ave.	Allen, E. <i>ph</i>	Hotel St. George, Bklyn.
Acken, E. A. <i>4 t</i>	7 Decatur, Bklyn.	Allen, H., Jr. <i>i s</i>	42 Cedar pl., Yonkers, N. Y.
Adams, E. B. <i>gr t</i>	41 E. 69	Allen, T. H. <i>2 m</i>	153 W. 64
Adams, E. S. <i>3 t</i>	453 W. 123	Allen, W. F. <i>3 l</i>	601 W. 148
Adams, I. B. <i>2 b</i>	Mount Kisco, N. Y.	Allen, W. H. <i>i c</i>	710 Franklin ave., Bklyn.
Adams, R. A. <i>3 c</i>	16 St. Nicholas pl.	Allers, C. L. <i>4 m</i>	160 Westervelt ave., New Brighton, S. I.
Adams, W. C. <i>2 l</i>	500 W. 123	Althaus, A. L. <i>2 b</i>	2770 Briggs ave.
Aery, W. A. <i>gr t</i>	Elmhurst, N. Y.	Amano, S. <i>pl</i>	64 E. 133
Agénbroad, A. A. <i>3 l</i>	353 W. 119	Amberg, J. L. <i>3 c</i>	172 W. 79
Agostini, V. D. <i>4 m</i>	44 W. 64	Ambrose, E. M. <i>t</i>	
Aicher, F. A. <i>sp s</i>	902 West End ave.	Amend, C. G. <i>i s</i>	33 W. 81
Aigeltinger, A. <i>2 s</i>	14 Leroy	Ames, C. E. <i>sp c</i>	1262 Tremont ave.
Albert, H. W. <i>4 c</i>	724 Ocean ave., Jersey City		

Amos, W. A. 2 c 430 W. 118  
 Anderson, C. A. 2 m 328 W. 56  
 Anderson, G. 4 s 413 W. 117  
 Anderson, H. 3 l 540 W. 113  
 Anderson, H. B. 4 b 114 Remsen,  
 Astoria, L. I.  
 Anderson, S. F. 3 t  
 1230 Amsterdam ave.  
 Andrews, B. R. gr t 530 W. 123  
 Andrews, T. f a 46 Edgecombe  
 ave.  
 Annan, R. 1 s 417 W. 118  
 Anspacher, M. C. 2 l 102 W. 132  
 Anspacher, H. 4 c 3 W. 122  
 Anthony, A. G. 2 b 31 E. 77  
 Anthony, H. M. 3 t 14 E. 16  
 Apezteguia, J. J. 1 s 72 E. 77  
 Aplington, H. T. 2 c 143 W. 85  
 Applegate, E. T. R., Jr. 3 m  
 117 W. 63  
 Arey, A. t 1230 Amsterdam ave.  
 Argall, G. O. 3 s 902 West  
 End ave.  
 Armand, L. J. sp t 550 W. 149  
 Armstead, D. M. sp s 216 W. 78  
 Armstrong, C. P. 1 b 203 Centre  
 ave., New Rochelle, N. Y.  
 Armstrong, D. 1 l 15 Westfield  
 ave., Rahway, N. J.  
 Armstrong, E. B. 4 m 259 W. 122  
 Armstrong, L. J. 1 b 203 Centre  
 ave., New Rochelle, N. Y.  
 Arnold, F. ph 131 E. 63  
 Arnold, G. O. 3 s 132 W. 109  
 Arnold, H. C. sp s 415 W. 117  
 Arnold, J. L. p 418 W. 118  
 Arnold, J. W. 1 c 121 W. 74  
 Arnold, L. S. 4 s 430 W. 118  
 Arnold, S. N. 4 s 200 W. 78  
 Arnold, W. C. ph 361 W. 123  
 Arnsfield, J. J. 2 s 230 W. 113  
 Arnstein, L. A. 2 s 117 E. 81  
 Artaud, T. P. ph Dobbs Ferry,  
 N. Y.  
 Asch, D. 3 l 114 W. 64  
 Ash, A. 1 b 316 W. 103  
 Ash, L. M. 3 t 1230 Amsterdam  
 ave.  
 Ashcroft, C. V. R. 3 t 11 E. 98  
 Ashforth, G. 3 c 391 West End ave.  
 Ashley, E. 3 s 747 St. Nicholas ave.  
 Ashmead, D. C. 3 s Alta ave.,  
 Park Hill, Yonkers, N. Y.  
 Askowiak, D. 1 b 17 W. 114  
 Astle, C. 3 m 159 W. 64  
 Atwater, H. C. 2 s 40 W. 59  
 Auchincloss, H. 4 m 24 E. 48

Auerbach, E. F. 2 b  
 1239 Madison ave.  
 Auerbach, G. S. 1 c 40 W. 77  
 Auerbach, H. S. 3 s 40 W. 77  
 Auerbach, I. H. 2 c 75 E. 80  
 Auerbach, J. 4 m 65 Broome  
 Autenrieth, G. C. p 941 Dawson  
 Axelrad, J. 2 m 120 E. Bway.  
 Babb, L. V. 4 t  
 1230 Amsterdam ave.  
 Babcock, D. P. 2 s 500 W. 123  
 Babcock, E. B. ph  
 63 and Central Park West  
 Babcock, H. G. 1 s 500 W. 123  
 Bach, M. J. 3 l 11 E. 92  
 Bachrach, C. G. 1 m 162 Powers,  
 Bklyn.  
 Back, E. M. 1 b 43 Cedar pl.,  
 Yonkers, N. Y.  
 Back, L. 3 t 16 N. Arlington ave.,  
 East Orange, N. J.  
 Baechler, J. 2 m 134 W. 29  
 Baegel, M. 1 m 112 Henry  
 Baehr, G. 1 m 200 W. 111  
 Bagley, G. J. 1 c 106 St. George's  
 ave., Rahway, N. J.  
 Bagnasco, J. M. 2 t 27 Weil pl.,  
 Astoria, N. Y.  
 Bagnell, R. H. 1 c 60 Seventh ave.  
 Bailey, M. H. 2 b 92 Fourth ave.  
 Bailey, R. DeW. 2 s 417 W. 117  
 Bailly, E. C. 2 c 310 W. 119  
 Baker, E. F. ph 174 E. 76  
 Baker, E. L. p 524 W. 123  
 Baker, E. R. pl 203 W. 117  
 Baker, H. T. pl 237 E. 104  
 Baker, O. E. pl 239 W. 122  
 Baker, R. O. 3 m 130 W. 93  
 Baker, R. W. 1 s 135 W. 116  
 Bakerman, J. J. 3 l 397 E. 8  
 Bakst, J. 3 m 42 Pike  
 Balch, E. G. pl 26 Jones  
 Baldwin, A. P. gr t 431 Riverside  
 dr.  
 Baldwin, B. J. pl 700 Park ave.  
 Baldwin, F. T. ph 417 W. 118  
 Ball, M. E. ph 414 W. 124  
 Ballach, S. B. 1 s 480 Cherry  
 Ballard, C. C. ph 600 W. 125  
 Ballard, G. E. ph 327 W. 56  
 Ballard, H. H. gr t 439 W. 123  
 Ballenberg, M. S. 3 l 240 E. 48  
 Ballou, B. 3 t  
 1230 Amsterdam ave.  
 Bamber, W. R. 1 s 844 Union,  
 Bklyn.  
 Bangs, H. McC. 3 c 627 W. 115

- Bangser, A. 2 c 121 W. 117  
 Banks, E. M. *pl* 229 W. 122  
 Banks, H. P. 1 c 104 John  
 Bannon, W. J. 1 m 147 W. 61  
 Banta, E. M. *ph* 144 St. James *pl*.  
 Barker, P. M. 4 m 303 W. 71  
 Barkley, F. H. 3 t 1230 Amsterdam ave.  
 Barnaby, J. C. 3 s 60 W. 104  
 Barnard, J. L. *pl* 138 W. 109  
 Barnes, C. V. *sp t* 18 W. 135  
 Barnes, N. W. *ph* 85 Lander,  
 Newburgh, N. Y.  
 Barnes, R. L. *sp s* 85 Willow-  
 dale ave, Montclair, N. J.  
 Barnett, S. M. 1 c 27 E. 73  
 Barnett, N. 1 m 400 West End ave.  
 Baron, M. *ph* 152 E. 124  
 Barrett, F. J. 4 m 481 Washington ave., Bklyn.  
 Barrett, M. F. *p* 19 Elm,  
 Bloomfield, N. J.  
 Barrett, R. C. 3 l 500 W. 121  
 Barrick, M. O. *ph* 121 Vroom,  
 Jersey City  
 Barrick, S. L. 4 c 121 Vroom, Jersey City  
 Barrows, S. 3 m 99 Heywood ave.,  
 Orange, N. J.  
 Barrows, W. B. 4 c 20 Central  
 ave., Tompkinsville, S. I.  
 Barshell, F. B. 4 s 22 W. 114  
 Barteld, H. C. 2 s 177 Hancock,  
 Bklyn.  
 Bartlett, F. H. 4 m 123 W. 96  
 Bartlett, L. S. 3 m 317 W. 56  
 Barton, R. M. *ph* 508 W. 112  
 Bartow, C. W. 4 m 101 W. 78  
 Basel, A. *ph* 40 Siegel, Bklyn.  
 Bass, M. H. 2 m 57 W. 91  
 Bassett, E. J. 1 c 525 W. 123  
 Bassett, E. W. 4 b 26 W. 129  
 Batchelor, C. B. 4 c 318 W. 57  
 Batdorff, I. J. 4 t 1230 Amsterdam ave.  
 Bates, E. C. 1 m 119 W. 63  
 Bates, K. C. 3 l 430 W. 118  
 Bates, M. L. *pl* 216 N. 9,  
 Newark, N. J.  
 Bates, W. S. 3 s 49 E. 49  
 Bateson, C. E. W. *p* 2345 Broadway  
 561 W. 149  
 Battell, H. M. 2 b 82 Central ave., Bklyn.  
 Bauer, A. F. *sp m* 82 Central ave., Bklyn.  
 Bauer, H. O. A. 2 l Piermont, N. Y.  
 Bauerdorf, C. R. 2 l 625 West End ave.  
 Bauernebl, A. J., Jr. 4 s 430 18th ave., Newark, N. J.  
 Baum, A. B. 1 l 662 E. 141  
 Baum, H. 4 s 88 First  
 Baum, P. 3 c 88 First  
 Baumeister, J. *ph* 402 Amity,  
 Flushing, N. Y.  
 Baumgard, H. G. 4 m 125 Manhattan ave.  
 Baxter, H. 3 s 418 W. 118  
 Bayes, W. R. 3 l 143 W. 105  
 Bayles, W. H. 3 m 79 Mahlstedt  
 pl., New Rochelle, N. Y.  
 Baylis, R. S. 3 s 567 St. Mark's  
 ave., Bklyn.  
 Beach, W. H. 1 l 529 W. 124  
 Beale, P. 3 l 429 W. 117  
 Beary, J. van H. 1 l 310 W. 107  
 Beattie, H. M. 2 s 56 and Bway.  
 Beatty, E. L. 3 l 305 W. 112  
 Bechert, A. O. *ph* 119 Jefferson,  
 Bklyn.  
 Beck, D. 1 c 84 Ave. B  
 Becker, R. C. 3 s 339 E. 68  
 Beckingham, D. F. 3 c 201 W. 141  
 Beckwith, M. W. *ph* 421 W. 117  
 Beeckman, F. L. *pl* 141 W. 104  
 Beekman, C. 1 c 55 Fifth ave.  
 Beekman, H. R. 2 l 35 W. 17  
 Beers, B. A. 1 b 35 Clinton pl.,  
 Jamaica, N. Y.  
 Beers, F. E. 4 b 174 Shelton ave.,  
 Jamaica, N. Y.  
 Behrman, S. 4 s 120 E. 3  
 Betfeld, M. M. *gr t* 302 W. 138  
 Bell, F. E. 3 b 243 Madison ave.,  
 Flushing, N. Y.  
 Bell, H. K. 2 c 243 Madison ave.,  
 Flushing, N. Y.  
 Beller, W. C. *gr t* 51 E. 123  
 Benham, W. L. 3 s 934 West End ave.  
 Benjamin, H. 3 s 431 W. 117  
 Bennett, C. E. 2 b 1063 Seventh ave.  
 Bennett, C. J. C. *gr t* 528 W. 123  
 Bennett, E. B. 1 l 323 State, Hackensack, N. J.  
 Bennett, G. G. 4 b 162 W. 72  
 Bennett, J. A. 4 m 521 W. 123  
 Bennett, J. S. 2 l 507 Manhattan ave.  
 Bennett, M. V. *ph* 73 High ave., Nyack, N. Y.  
 Benson, C. 2 s 417 W. 117  
 Benton, N. K. 3 c



Berg, A. V. 1 s 118 and Amster-  
dam ave.  
Berg, C. deL. pl. 615 W. 112  
Berglund, A. pl. 508 W. 130  
Bergman, H. M. 2 s 317 E. 57  
Bergmann, R. C. 1 s 19 E. 126  
Berkowitz, L. 2 c 144 Manhattan  
ave., Bklyn.  
Berliner, L. H. 1 c 314 E. 87  
Bernheim, A. R. sp b 344 W. 89  
Bernheim, J. B. 3 c 321 W. 139  
Bernheim, S. 3 l 139 E. 95  
Bernkopf, B. M. 2 b 223 W. 138  
Bernstein, C. D. fa 161 Clinton  
Bernstein, L. P. 4 m 132 Broome  
Bernstein, M. 3 m 22 E. 103  
Berry, E. S. 3 s 457 W. 123  
Berry, H. B. 3 t 5 W. 125  
Bertini, A. A. 3 c 154 Bleecker  
Bessie, A. 1 c 236 W. 120  
Betjemann, H. C. 2 c 230 3d ave.  
Bickelhaupt, B. S. 3 m 630 E. 162  
Bierman, H. 2 c 513 E. 82  
Biermann, F. E. 4 c 506 W. 112  
Bigelow, W. F. sp c 223 W. 106  
Biggin, F. I. 4 b 508 W. 147  
Bijur, H. 1 c 172 W. 75  
Billingsley, H. McC. 1 l 38 E. 22  
Billingsley, P. 1 c 446 Macon,  
Bklyn.  
Bingham, K. F. fa 44 W. 83  
Binzel, A. L. 4 t 430 W. 118  
Binzel, C. E. 4 t 1230 Amsterdam ave.  
Birdsall, C. A. 3 m 197 Ege ave.,  
Jersey City  
Birmingham, W. G. 3 l 370 W. 118  
Bisch, L. E. 1 c 254 W. 104  
Bishop, H. 4 s 250 W. 88  
Bissell, C. Y. fa 25 Zabriskie,  
Jersey City  
Bissell, P. St. G. pl  
Black, R. E. 4 m  
Blackburn, L. P. 3 b 324 W. 58  
Blackman, E. 3 t 449 W. 123  
Blackwood, I. A. pl 34 W. 124  
Blake, C. D. 4 t 541 W. 124  
Blake, C. H., Jr. 2 l  
Englewood, N. J.  
Blake, E. T. sp t 541 W. 124  
Blake, F. C. p 317 W. 124  
Blakely, G. S. ph 2678 Creston  
ave.  
Blakely, S. B. 1 m 355 W. 56  
Blank, M. I. ph 42 W. 115  
Blatch, H. S. sp b 10 Gramercy Pk.  
Blauvelt, M. E. 4 c  
3 Robbins pl., Yonkers, N. Y.

Bleelman, J. P. 2 c 203 W. 118  
Bleckman, N. ph 203 W. 118  
Bleyer, A. 3 s 449 E. 57  
Bliss, D. C. gr t Kearny, N. J.  
Bliss, H. J. W. p 417 W. 118  
Block, M. 1 c 848 Greene ave.,  
Bklyn.  
Bloom, I. 1 c 61 Thatford ave.,  
Bklyn.  
Bloomgarden, A. S. 1 m 142 Division  
Blum, J. 2 c 269 East Bway.  
Blumberg, H. 1 c 268 Stockton,  
Bklyn.  
Blumberg, S. 2 l 179 E. 95  
Blumenstiel, A. B. 3 c 108 E. 79  
Boardman, D. T. 3 s 457 W. 123  
Bockshitzky, B. J. 4 m 262 East Bway.  
Bode, G. H. 1 s 1855 7th ave.  
Bode, W. A. 3 s 1855 7th ave.  
Boeck, P. A. 2 s 412 West End ave.  
Bogert, C. R. ph 1230 Amsterdam ave.  
Boggs, N. T. 3 l 42 So. Clinton,  
East Orange, N. J.  
Bogue, P. D. 3 c 116 and  
Riverside dr.  
Boice, C. L. 3 t 122 W. 127  
Boice, H. W. 2 m 28 E. 23  
Boisse, P. S. 1 s 137 E. 73  
Bolenius, E. M. gr t 1272 Amsterdam ave.  
Bolles, F. N. 2 c 417 W. 117  
Bolles, J. A. 2 l 36 Morningside  
ave.  
Bolton, A. T. 3 s 200 and Marion ave.  
Bond, S. F. 1 s 414 W. 118  
Bondy, E. L. 2 c 477 Manhattan ave.  
Bonime, E. 4 m 50 E. 99  
Bonsall, V. F. M. ph 2626 Bway.  
Bonyne, H. A. 4 m  
931 Washington, Hoboken, N. J.  
Bookman, M. R. 3 m 1248 Fulton ave.  
Boorman, E. S. S. 4 b Lafayette Boulevard & W. 173  
Boorman, K. M. 1 c Lafayette Boulevard & W. 173  
Boote, M. L. 2 b 99 Highland ave.,  
Yonkers, N. Y.  
Booth, M. M. ph 529 W. 111  
Borgwald, C. fa 223 N. 6th ave.,  
Mt. Vernon, N. Y.  
Borsody, L. 3 s 325 E. 82

- Boss, A. M. 4 b 14 W. 95  
 Boswell, J. A. 3 m  
 Bosworth, W. H. 2 s 902 West End ave.  
 Bottomley, W. L. 4 s 254 W. 132  
 Boucher, S. ph 237 Central Park West  
 Bourke, J. F. 4 m 144 W. 12  
 Bovard, L. L. 4 b 1230 Amsterdam ave.  
 Bovey, J. M., Jr. 2 l 73 & Bway.  
 Bowden, J. E. 3 t 1230 Amsterdam ave.  
 Bowen, A. J. p 534 W. 124  
 Bower, J. F. ph 321 W. 116  
 Bowers, W. C. 1 m 345 W. 58  
 Bowie, W. B. 2 s 171 Madison, Bklyn.  
 Bowman, J. G. ph 534 W. 124  
 Bowman, N. C. ph 417 W. 118  
 Boyd, C. S. 4 m 362 Willis ave.  
 Boyd, V. T. 3 b 40 Perry  
 Boyd, W. B. 4 m 40 Perry  
 Boykin, R. H., Jr. 1 s 103 W. 48  
 Boyle, J. N. 3 c 224 E. 124  
 Boynton, W. H. 2 s 541 W. 124  
 Brackett, M. M. p 604 W. 115  
 Bradford, E. E. 3 b 418 W. 118  
 Bradley, A. B. A. 3 l 304 W. 83  
 Bradley, E. F. 2 c 29 W. 38  
 Bradley, R. H. 4 s 627 W. 115  
 Bradley, W. E. F. 4 s 608 W. 113  
 Bradsher, E. L. ph 524 W. 123  
 Brady, A. R. G. 4 t 33 Clinton, Tompkinsville, S. I.  
 Brady, J. S. 4 m 245 W. 36  
 Brady, T. J. 3 s 42 W. 75  
 Brady, W. G., Jr. 1 c 109 W. 122  
 Bragaw, A. C. sp. l 20 E. 94  
 Brainin, C. S. 1 c 44 E. 112  
 Brancato, P. 3 m 308 W. 44  
 Brancher, H. S. gr t 700 Park ave.  
 Brand, J. 1 b 332 Third ave.  
 Brandau, G. J. 2 c 115 Butler, Flatbush, N. Y.  
 Brandley, W. G. 1 c 52 Hillside pl., Newark, N. J.  
 Brandou, I. ph 40 W. 89  
 Brands, C. 3 c 409 Park ave., Paterson, N. J.  
 Bratton, E. C. 2 t 141 Warburton ave., Yonkers, N. Y.  
 Braun, J. 4 m 101 Avenue D  
 Braunid, H. K. gr t 528 W. 123  
 Brautigam, E. R. 3 b 23 Lincoln, East Orange, N. J.  
 Breck, W. R. 1 c 509 W. 142  
 Breckenridge, W. E. p 1022 Trinity ave.  
 Brennan, W. J. 3 c 2 W. 75  
 Brenner, E. C. 1 m 174 St. Nicholas ave.  
 Brewer, H. F. pl 3136 Broadway  
 Brewster, A. D. 3 b 527 W. 124  
 Brewster, J. A. gr t 501 W. 120  
 Brewster, R. K. 1 s 615 W. 147  
 Bridgeman, L. W. 1 s 278 Lockwood, Astoria, N. Y.  
 Briggs, F. S. 2 m  
 Brill, P. K. 2 s 200 Van Buren, Bklyn.  
 Brinckerhoff, A. M. gr t 6 W. 48  
 Brinckerhoff, M. L. gr t 6 W. 48  
 Brisco, N. A. pl 521 W. 124  
 Brison, M. J. 4 t 3135 Bway.  
 Brodie, J. W. 2 c 431 Riverside dr.  
 Brodix, C. R., Jr. 2 c 431 Riverside dr.  
 Brodix, J. W. 2 c 431 Riverside dr.  
 Brodoc, R. pl 505 W. 124  
 Brooks, A. P. 3 t 1230 Amsterdam ave.  
 Brophy, P. F. fa 457 W. 123  
 Brouse, E. W. 3 l 332 Lenox ave.  
 Brower, F. D. 1 l 339 Riverside dr.  
 Brown, A. E. 4 b 1230 Amsterdam ave.  
 Brown, B. fa 902 West End ave.  
 Brown, B. A. t 1230 Amsterdam ave.  
 Brown, C. B. 1 c 307 W. 80  
 Brown, F. C. 3 c 620 W. 148  
 Brown, F. deS. fa 242 W. 73  
 Brown, H. L. 2 l 42 W. 72  
 Brown, J. V. sp c 100 E. 114  
 Brown, L. 1 c 82 E. 113  
 Brown, M. A. 3 t 237 W. 111  
 Brown, M. F. 3 b 391 West End ave.  
 Brown, O. 2 s 125 E. 93  
 Brown, R. M. 4 m 64 W. 56  
 Brown, S. 2 m 143 W. 61  
 Brown, T. C. p 520 W. 123  
 Brown, U. D. gr t 156 W. 80  
 Browne, D. H. 4 c 608 W. 113  
 Browne, M. E. 3 b 1539 Pacific, Bklyn.  
 Browne, T. J. 4 t 501 W. 50  
 Browne, T. Q., Jr. p Morristown, N. J.  
 Brownell, E. G. 1 m 328 W. 56  
 Brown-Serman, S. 4 c 533 W. 124

- Bruce, J. M. 3 b 638 Newark ave.,  
Jersey City, N. J.
- Bruce, M. 3 c 380 Hicks, Bklyn.
- Brundage, P. E. 4 m  
1024 Hudson, Hoboken, N. J.
- Brundin, T. M. 1 b  
Long Island City
- Bruner, H. E. 2 l 332 Lenox  
ave.
- Bruning, H. F. 4 m 318 W. 57
- Bruns, C. L., Jr. 1 s 2649 Bway.
- Brush, A. C. 1 b 113 W. 69
- Bryant, M. D. 4 m
- Bryant, W. S., Jr. 1 l 153 W. 80
- Bryde, E. D. 1 l  
20 Mt. Morris Park West
- Buchdahl, M. G. 2 c 76 W. 113
- Bucher, H. F. X. 4 t 162 E. 61
- Buckingham, E. 4 b 632 W. 148
- Bucons, L. 4 m 1542 Madison ave.
- Budington, E. G. 3 l 420 W. 118
- Budington, W. I. 1 m 414 W. 118
- Buehler, E. A. 2 b 122 Monmouth,  
Newark, N. J.
- Buell, T. R. 4 s 413 W. 117
- Bulkley, H. D. 2 l 608 W. 113
- Bulkley, K. 3 c 531 Madison ave.
- Bull, G. H. 1 c 40 E. 40
- Bullard, R. H. f a  
116 and Riverside dr.
- Burch, T. H., Jr. 4 s 106 W. 57
- Burdette, R. S. 2 s Cliffside, N. J.
- Burdick, C. K. 1 l
- Burdick, R. H. 1 s  
Pelham Manor, N. Y.
- Burke, D. L. 3 t 520 W. 123
- Burke, R. P. 1 m 56 E. 59
- Burnett, T. W. 1 m 324 W. 83
- Burnham, A. C. 3 m Mt. Vernon,  
N. Y.
- Burns, G. 3 c 423 W. 117
- Burritt, M. T. ph  
1230 Amsterdam ave.
- Burrows, E. C. 3 m
- Burrows, E. M. 1 b 25 Neperan rd.  
Tarrytown, N. Y.
- Burton, H. W. ph 20 E. 29
- Bush, W. T. ph 112 and Bway.
- Bushong, A. M. 1 b 442 Ninth,  
Bklyn.
- Bushong, R. G. 2 l 430 W. 118
- Bussey, G. C. 1 b 112 Claremont  
ave., Mt. Vernon, N. Y.
- Butler, E. 4 b 449 Fifth, Bklyn.
- Butler, E. C. 3 m 236 E. 23
- Butterfield, W. H. f a 534 W. 124
- Byrne, F. J. 1 s  
623 Lexington ave.
- Byrne, M. C. 4 b 338 Decatur,  
Bklyn.
- Byron, T. P. sp c  
118 and St. Nicholas ave.
- Byshe, E. W. ph Madison, N. J.
- Caldwell, R. M. ph 54 W. 104
- Calhoun, E. S. 4 b 201 W. 100
- Calhoun, M. E. 4 b 176 W. 87
- Callaghan, W. A. 2 m
- Callahan, G. J. 2 l 354 W. 123
- Camera, A. U. N. ph 575 West ave.,  
Kensington, Flatbush, N. Y.
- Campbell, A. sp t 527 W. 173
- Campbell, B. 2 c 522 W. 123
- Campbell, C. E. 1 b 2309 7th ave.
- Campbell, C. L. 3 s 415 W. 117
- Campbell, J. ph Kingsbridge ave.
- Campbell, R. E., Jr. 3 c  
522 W. 123
- Camprubi, R. A. sp c 70 E. 54
- Cannon, H. G. 4 s 111 W. 103
- Canoun, G. L. 2 b  
Clay ave. near 175
- Canto, Y. H. 2 m 452 W. 23
- Cantrell, L. M. 2 l 430 W. 118
- Caponigri, J. F. 3 l 159 E. 74
- Carbone, M. 2 s 240 Fifth ave.
- Carlebach, W. M. 3 s 136 W. 86
- Carleton, F. D. 1 s "Montrose,"  
North Bway., Yonkers, N. Y.
- Carlson, C. O. gr t  
1476 Lexington ave.
- Carlson, F. pl 230 W. 18
- Carlsson, C. P. ph 175 Ninth ave.
- Carlucci, G. A. 1 m 47 Seventh
- Carnahan, T. S. 4 s  
531 Manhattan ave.
- Carpenter, H. N. 2 s 361 W. 117
- Carpenter, L. J. 4 b  
1230 Amsterdam ave.
- Carpenter, W. M. 2 c 253 W. 100
- Carpentier, M. A. ph 170 Lee  
ave., Bklyn.
- Carr, H. C. 1 s 1925 7th ave.
- Carr, K. S. 1 s  
133 Manhattan ave.
- Carroll, A. 2 b  
1230 Amsterdam ave.
- Carter, D. S. 1 s 130 E. 24
- Carter, H. 2 b 138 W. 129
- Carter, J. P. 3 l 130 E. 24
- Cartmell, T. M. 2 m 38 E. 22
- Casamajor, L. 3 m 135 W. 61
- Casamajor, R. 3 c 372 Greene ave.,  
Bklyn.
- Case, A. H. 4 s 523 W. 124
- Case, C. C. ph 343 W. 87

- Cashen, M. 3 t 415 W. 118  
 Casper, J. 3 m  
 Cassebeer, A. F. 1 m 153 W. 64  
 Casseres, A. G. 1 b 449 So. 3d  
 ave., Mt. Vernon, N. Y.  
 Casserly, F. P. 2 s 112 E. 18  
 Cassini, H. 1 m 71 Cone, Orange,  
 N. J.  
 Caswell, W. L. 3 c  
 9 Arlington pl., Bklyn.  
 Cathcart, G. L. 4 b  
 1230 Amsterdam ave.  
 Cauchois, R. W. 2 s 458 W. 144  
 Cazin, A. p 1108 Bloomfield,  
 Hoboken, N. J.  
 Cecil, J. K. ph 700 Park ave.  
 Cella, C. D. 1 c 43 McDougal  
 Chadwell, E. W. sp b 417 W. 118  
 Chaloux, L. B. ph Madison, N. J.  
 Chamberlain, A. R. 4 m 133 W. 72  
 Chamberlain, E. ph 41 E. 75  
 Chamberlain, R. ph  
 295 Schermerhorn, Bklyn.  
 Chambers, F. W. 3 c 315 W. 58  
 Chambers, J. S. D. 4 m  
 Room 152, Carnegie Hall  
 Chambers, R. N. 1 l 143 W. 122  
 Chapin, H. E. 2 c Hamilton Park,  
 New Brighton, N. Y.  
 Chapman, E. A. 3 b  
 3635 Boulevard, Jersey City  
 Chapman, E. 3 t 37 Clinton ave.,  
 Jamaica, N. Y.  
 Chapman, J. M. 3 t  
 1230 Amsterdam ave.  
 Chard, S. 2 l 347 W. 87  
 Chater, E. McR. D. ph  
 Englewood, N. J.  
 Cheadle, A. B. 3 c 416 W. 118  
 Chedsey, M. C. gr t  
 1230 Amsterdam ave.  
 Chelimer, H. J. 2 c 208 E. 105  
 Cheney, C. O. 1 c 158 W. 46  
 Cheney, G. W. 4 t 236 Johnson  
 ave., Bklyn.  
 Chickering, E. C. ph Jamaica, N. Y.  
 Childs, J. H. 4 m 339 Totowa ave.,  
 Paterson, N. J.  
 Chipley, D. sp s 44 W. 17  
 Chipperfield, F. D. 3 b 606 W. 115  
 Chisholm, O. P., Jr. 2 s  
 429 W. 117  
 Chodorov, F. 1 c 40 Great Jones  
 Chrisman, M. B. 3 t  
 1230 Amsterdam ave.  
 Church, A. C. pl 700 Park ave.  
 Church, J. A., Jr. 3 s  
 697 West End ave.
- Church, M. E. 4 t 187 High,  
 Passaic, N. J.  
 Churchill, L. T. 3 s  
 Clapp, L. R. 2 s 415 W. 117  
 Clark, F. H. 2 s 616 W. 113  
 Clark, F. M. 3 l 524 W. 123  
 Clark, J. R., Jr. 2 l 527 W. 123  
 Clark, V. S. 1 l 319 W. 46  
 Clarke, H. E. sp c 159 W. 95  
 Clarke, L. V. 4 m 143 W. 64  
 Clarke, M. B. 4 t 531 W. 124  
 Clarkson, J. G. 2 s 684 E. 144  
 Class, F. M. 2 m 228 W. 75  
 Cleveland, H. G. 1 c  
 Ridgewood, N. J.  
 Clinton, E. A. ph  
 1230 Amsterdam ave.  
 Close, E. B. 2 l 608 W. 113  
 Clune, M. T. 1 s  
 397 Lexington ave.  
 Coan, R. A. sp l 429 W. 117  
 Cobb, C. W. gr t 105 W. 70  
 Cocke, M. L. f a  
 1230 Amsterdam ave.  
 Cockey, C. R. f a 580 W. 183  
 Cockrell, M. 1 l 414 W. 118  
 Codle, J. J., Jr. pl 700 Park ave.  
 Coe, M. S. p 42 W. 52  
 Cogswell, A. H. ph 600 W. 114  
 Cohen, A. 2 b Aqueduct ave. E.,  
 and 182  
 Cohen, A. B. 2 c 283 Osborn,  
 Bklyn.  
 Cohen, A. J. 3 l 150 W. 87  
 Cohen, E. 3 m 60 E. 7  
 Cohen, H. 4 m 1524 Washington  
 ave.  
 Cohen, H. L. ph 38 W. 93  
 Cohen, Helen Nessa 4 b  
 1232 Madison ave.  
 Cohen, I. 1 l 338 Ninth ave.  
 Cohen, L. 4 m 1860 Fulton,  
 Bklyn.  
 Cohen, L. p 120 E. 112  
 Cohen, L. J. p 1867 Seventh ave.  
 Cohen, N. M. 4 c 43 W. 87  
 Cohn, M. M. 1 c 64 W. 115  
 Cohn, R. M. 2 m 699 High,  
 Newark, N. J.  
 Cohn, W. W. 1 c  
 Coker, F. W. pl 540 W. 113  
 Colburn, H. S. gr t 318 W. 57  
 Colby, S. C. 2 b 2013 Fifth ave.  
 Cole, A. C. gr t 408 W. 124  
 Cole, E. 2 b Sea Cliff, N. Y.  
 Cole, E. C. 2 b 371 W. 119  
 Cole, F. C. 2 l 52 Morningside ave.  
 Coleman, L. G. 3 t 3135 Bway.



- Colie, D. *f a* 29 E. 22  
 Colie, E. M., Jr. *4 m* 133 W. 72  
 Colligan, E. A. *1 t* 111 Ainslie,  
 Bklyn.  
 Collings, W. A. *1 l* 475 Manhattan ave.  
 Collins, C. *ph* 317 W. 119  
 Collins, E. T. *2 c* 310 W. 115  
 Collins, F. W. *sp s* 352 W. 123  
 Collins, K. B. *2 c* 45 Convent ave.  
 Collyer, H. L. *3 l* 109 E. 54  
 Collon, E. A. *ph* 1230 Amsterdam ave.  
 Colwell, R. H. *gr t* 1230 Amsterdam ave.  
 Commorato, J. R. *1 m* 1 Franklin  
 Comstock, G. F. *2 c* 119 W. 86  
 Comstock, M. C. *sp c* 100 W. 253  
 Conant, H. J. *1 l* 520 W. 123  
 Conant, S. H. *pl* 526 W. 114  
 Condit, J. P. *3 b* 15 Lincoln,  
 E. Orange, N. J.  
 Congdon, H. W. *f a* 18 Bway.  
 Conger, D. L. *4 t* 1230 Amsterdam ave.  
 Conley, D. S. *3 m* 71 W. 71  
 Conlon, P. J. *4 m*  
 Connell, W. H., Jr. *3 s* 317 W. 86  
 Conner, M. E. *gr t* 501 W. 120  
 Conover, G. M. *4 b* 10 E. 130  
 Conried, R. *2 c* 65 W. 71  
 Content, H. A. *1 c* 62 E. 79  
 Conty, R. J. *2 c* 337 Third,  
 Town of Union, N. J.  
 Conwell, E. V. *3 l* 521 W. 123  
 Cook, F. S. *4 s* 534 W. 124  
 Cook, W., Jr. *sp l* 135 E. 37  
 Cooke, J. P. *2 b* 679 Greene ave.,  
 Bklyn.  
 Cookson, J. S. *3 s* 521 W. 123  
 Coolbaugh, M. F. *p* 1268 Amsterdam ave.  
 Cooley, A. M. *gr t* 134 W. 95  
 Cooley, H. W. *4 b* 241 W. 14  
 Cooper, B. *4 t* 527 W. 123  
 Cooper, C. C. *2 l* 206 W. 106  
 Cooper, C. S. *ph* 3 W. 29  
 Cooper, E. M. *4 s* 57 Convent ave.  
 Cooper, F. L. *4 c* 746 St. Nicholas  
 ave.  
 Cooper, H. E. *1 t* 61 Park ave.,  
 Yonkers, N. Y.  
 Cooper, J. R. *1 s* 57 Convent ave.  
 Coper, F. W. *pl* 540 W. 113  
 Corcoran, C. A. *p* 81 Bedford  
 Corcoran, D. *4 m* 143 W. 64  
 Cordes, J. M. *sp m* 417 E. 16  
 Cordner, R. *4 m* 120 W. 64  
 Corn, B. *3 c* 23 E. 128  
 Cornell, C. F. *3 c* 33 Alsop,  
 Jamaica, N. Y.  
 Cornell, M. L. *4 s* 614 W. 113  
 Cornish, C. H. *sp b* 235 E. 18  
 Corscaden, J. A. *3 m*  
 Cosgrove, J. D. *3 s* 64 Rush,  
 Bklyn.  
 Costello, T. J. *2 s* 355 W. 56  
 Costikyan, P. H. *f a* 147 Fifth ave.  
 Cotter, M. A. *4 t* 1230 Amsterdam ave.  
 Cottle, G. F. *4 m* 1 Gramercy Pk.  
 Couch, A. M. *gr t* 778 Bushwick  
 ave., Bklyn.  
 Coursault, J. H. *gr t* 371 W. 119  
 Courtney, C. H. *ph* Dobbs Ferry, N. Y.  
 Coveney, R. *1 b* 146 Seventh ave.,  
 Bklyn.  
 Cowen, A. R. *2 c* 39 E. 74  
 Cowen, H. G. *3 l* 39 E. 74  
 Craig, A. H. *4 t* 1230 Amsterdam ave.  
 Cram, G. LaF. *ph* 6 Morningside ave.  
 Crane, K. P. *pl* 103 E. 83  
 Crane, T. H. *1 c* 771 Palisade ave.,  
 Yonkers, N. Y.  
 Crawford, L. W., Jr. *ph* 505 W. 124  
 Crawford, R. McL. *4 t* 505 W. 124  
 Crawford, W. K. *3 l* 903 West End ave.  
 Crawley, G. E. *1 s* 557 W. 124  
 Crecelius, F. W. *1 s* P. O. Box 36  
 College Point, N. Y.  
 Creevey, W. S. *3 l* 136 W. 98  
 Crocker, R. S. *f a* 257 W. 75  
 Crohn, B. B. *2 m* 76 E. 92  
 Crone, H. *2 l* 152 E. 89  
 Cronin, E. J. *4 m* 149 W. 64  
 Crosby, W. C. *sp c* 38 Trinity pl.,  
 New Rochelle, N. Y.  
 Cross, J. B. *2 m* 153 W. 64  
 Crossley, B. M. *3 t* 227 W. 116  
 Crowell, F. S. *4 s* 188 Franklin pl.  
 Flushing, N. Y.  
 Crowell, J. W. *pl* 188 Franklin  
 pl., Flushing, N. Y.  
 Crowell, M. B. *1 b* Richmond Hill, N. Y.  
 Crusier, F. Van D. *p* 195 Clinton,  
 Bklyn.  
 Cubberly, E. P. *gr t*  
 Cumming, P., Jr. *1 l* 421 W. 117  
 Cummings, W. L. *3 l* 38 E. 22

- Cunnion, A. J. 1 m 407 E. 120  
 Curran, A. 1 c 42 E. 57  
 Currie, T. H. p 140 W. 102  
 Curtin, M. H. p 45 W. 39  
 Curtis, G. B. 3 s 310 W. 115  
 Curtis, H. D. 4 c 438 Central Park West  
 Curtis, H. S. ph 507 W. 124  
 Curtis, M. W. 1 t 457 W. 123  
 Curtis, V. P. p 475 Manhattan ave.  
 Cushing, M. G. ph Hotel St. Andrew, Bway. and 72  
 Custer, G. A. 2 l 521 W. 123  
 Cuthel, C. W. 4 c 604 W. 114  
 Cutler, H. D. 2 l 414 W. 118  
 Cutler, S. L. ph 471 E. 177  
 Cutting, F. L. 2 t 99 Java, Bklyn.  
 Cutting, H. E. pl 24 Union pl., Yonkers, N. Y.  
 Cutting, V. W. 1 c 99 Java, Bklyn.  
 Damon, L. A. 3 t 255 W. 112  
 Danehy, G. W. 1 s 1824 Anthony ave.  
 Dangler, H. C. f a 102 Waverly  
 Daniel, G. W. 1 s 441 W. 43  
 Daniels, H. M. gr t 1230 Amsterdam ave.  
 Dantziger, C. T. 4 s 618 St. Nicholas ave.  
 Darling, N. O. 3 b 410 W. 115  
 Darrin, K. E. 3 b 350 Jamaica ave., L. I. C.  
 Darrow, R. 3 t 430 W. 118  
 Davenport, F. I. gr t 3136 Bway.  
 David, C. T. 4 m 31 First  
 Davidoff, H. ph 3 E. 106  
 Davidson, M. E. S. 4 t 2728 Bway.  
 Davies, H. L. 1 b 352 W. 118  
 Davis, A. L. 3 l 152 E. 94  
 Davis, A. M. 2 l 12 W. 115  
 Davis, B. 1 c 211 W. 117  
 Davis, E. L. 3 l 57 New, Orange, N. J.  
 Davis, H. F. 1 s 526 W. 123  
 Davis, I. J. 1 s 525 W. 123  
 Davis, J. A. ph 417 W. 114  
 Davis, M. G. 2 t 453 W. 123  
 Day, E. 4 b 1146 Tinton ave.  
 Day, H. 4 b 3136 Broadway  
 Day, H. L. 3 m 125 W. 64  
 Day, M. M. 4 c 209 W. 107  
 Deacon, H. G. 3 t 108 E. 86  
 Dean, C. B. pl 151 W. 70  
 Dean, M. E. 3 t Hastings-on-Hudson, N. Y.  
 Dean, P. R. gr t 140 W. 102  
 Dean, S. E. 4 t 1230 Amsterdam ave.  
 Dearborn, W. F. gr t 402 W. 124  
 de Boer, J. M. 2 t 153 Riverdale ave., Yonkers, N. Y.  
 Decker, C. T. 3 m 205 Elm, Westfield, N. J.  
 Decker, H. R. 2 m  
 Decker, S. S., Jr. 1 l 143 W. 122  
 Decker, W. C. 3 c 3 W. 129  
 Dederer, I. C. 2 m 565 W. 113  
 Dederer, P. H. p 505 W. 113  
 Deehan, A. M. 3 t  
 Degener, H. 1 c 316 W. 89  
 DeGraff, F. A. 3 t 520 W. 123  
 Dehuff, A. I. 2 s 418 W. 118  
 Deixel, A. 3 c 47 Barclay, Newark, N. J.  
 DeKlyn, C. C. 4 m 430 W. 118  
 de La Bouglise, R. 3 s 1161 Amsterdam ave.  
 de Lara, F. B. 2 s 305 W. 130  
 de la Torre, M. 3 s 201 W. 120  
 Delphey, E. V., M.D. sp m 400 W. 57  
 del Rio, J. R. 3 s 365 Manhattan ave.  
 Demarest, I. C. 2 c 54 Essex, Hackensack, N. J.  
 Dennis, H. p 29 James, Newark, N. J.  
 Dennis, M. F. sp t 1230 Amsterdam ave.  
 Denno, W. J. 3 m 338 W. 56  
 Denzer, B. S. 3 c Edgewood Pk., New Rochelle, N. Y.  
 Derbshire, C. E. sp t 1230 Amsterdam ave.  
 Derby, R. 2 m 3 E. 40  
 Derow, D. 4 m 136 Rivington  
 de Sallier du Pin, R. A. 3 s 526 W. 123  
 Despard, C. S., Jr. 2 s 414 W. 118  
 Detwiller, A. K. 3 m 34 W. 61  
 Deutsch, M. 3 s 79 E. 113  
 Devoe, W. B. 3 c 321 W. 103  
 de Vries, A. 1 b 111 Summit ave., Mt. Vernon, N. Y.  
 Deweese, F. M. 3 l 416 W. 118  
 Deyo, L. De W. 3 t 212 Shelton ave., Jamaica, N. Y.  
 Dickey, F. A. 2 c 56 Lenox ave.  
 Dickinson, F. McL. 4 m 207 W. 56  
 Dickler, N. N. 3 c 260 Watkins, Bklyn.  
 Dickson, C. F. 2 s 902 West End ave.

Diehl, F. *ph* 700 Park ave.  
 Dier, A. A. 2 *s* 414 W. 118  
 Dieterlen, C. T. E. 2 *s* 200 and  
 Valentine ave.  
 Dietz, E. A. 4 *b* 136 E. 43  
 Dilkes, G. R., Jr. 1 *l* 504 W. 112  
 Dilworth, J. F. *pl*  
 Disbrow, J. 2 *b* 74 Convent ave.  
 Dixon, B. F., Jr. 2 *l* 534 W. 124  
 Dixon, E. S. 3 *t* 1230 Amsterdam  
 ave.  
 Doane, C. L. 3 *t* 257 W. 111  
 Dodd, S. W. 4 *m* 196 Clinton ave.,  
 Newark, N. J.  
 Dodds, M. E. 3 *t* 325 Lenox ave.  
 Dodge, A. D. sp *t* 125 E. 39  
 Dodge, S. V. 4 *t* 74 W. 124  
 Dodman, A. C., Jr. 2 *s* 235 W. 108  
 Doernberg, W. S. 2 *c* 127 E. 95  
 Dolan, M. F. 1 *t* Woodside, N. Y.  
 Doll, C. G. 2 *t* 3136 Broadway  
 Dollin, E. N. 3 *l* 1377 Lexington ave.  
 Dolphin, M. E. 4 *t* 430 W. 118  
 Donaldson, I. L. 2 *t* 309 W. 85  
 Donaldson, S. M. 4 *t* 10 W. 135  
 Donnelly, M. K. 4 *b* 412 W. 149  
 Donnelly, T. F. 2 *s* 412 W. 149  
 Donovan, C. W. 1 *l* 224 Keap,  
 Bklyn.  
 Donovan, H. 4 *t* 531 W. 124  
 Donovan, P. W. 4 *s* 529 W. 123  
 Donovan, W. J. 4 *c* 413 W. 117  
 Doon, C. W. 2 *s* 704 E. 138  
 Dorrian, C. I. 4 *b* 310 W. 58  
 Dorsett, L. A. 3 *b* 3 Kenilworth pl.,  
 Jamaica, N. Y.  
 Dorsey, C. D. 1 *l* 521 W. 123  
 Dorsey, J. J. 2 *m* 129 W. 64  
 Doty, A. 2 *s* 69 Locust Hill ave.,  
 Yonkers, N. Y.  
 Doty, H. S. 3 *s* 69 Locust Hill  
 ave., Yonkers, N. Y.  
 Doty, K. S. *pl* 553 W. 141  
 Doty, O. K. 2 *s* 553 W. 141  
 Doughty, J. B. 2 *s* 73 Manhattan ave.  
 Douglas, C. M. 2 *t* 1230 Amsterdam ave.  
 Douglas, I. R. 4 *t* 1183 3d ave.  
 Downs, F. G. 3 *c* 75 Fairview ave.,  
 Jersey City  
 Dox, A. W. *p* 500 W. 123  
 Dox, R. W. 2 *c* 305 W. 18  
 Draper, A. O. 4 *b* 18 W. 8  
 Draper, G. 3 *m* 18 W. 8  
 Drennen, W. E. 3 *m* 117 W. 81  
 Drieaus, I. W. gr *t* 3136 Bway.

Driscoll, G. C. 4 *m* 151 W. 64  
 Droge, H. G. 4 *s* Flushing, N. Y.  
 Druding, F. D. 3 *s* 219 W. 106  
 DuBois, E. F. 3 *m* 317 W. 56  
 Duden, F. H. 3 *s*  
 Bronxville, N. Y.  
 Dudley, L. E. 1 *m* 153 W. 64  
 Duell, W. C. 3 *l* 310 W. 115  
 Duffield, S. K. 1 *m* 12 W. 12  
 Duffy, F. P. *pl* St. Joseph's  
 Seminary, Yonkers, N. Y.  
 Dunbar, J. M. 1 *s* Dobbs Ferry,  
 N. Y.  
 Duncan, C. S. *ph* 521 W. 123  
 Duncan, D. 2 *s* 459 Classon ave.  
 Duncan, W. H., Jr. sp *c*  
 108 Woodruff ave., Bklyn.  
 Dunham, F. G. 3 *l* 104 E. 20  
 Dunlop, W. C. 3 *s* 27 Belmont  
 Terrace, Yonkers, N. Y.  
 Dunn, G. S. 3 *t* 200 W. 98  
 Dunn, J. P. *f a* 1111 Dawson  
 Dunney, J. A. *ph*  
 Dunwoodie, N. Y.  
 Dunwoodie, C. E. 1 *s*  
 Durant, A. L. 4 *b*  
 603 West End ave.  
 Durfee, C. G. 4 *t*  
 1939 Madison ave.  
 Durham, K. 3 *l* 404 W. 145  
 Dusel, W. J. 2 *s*  
 1268 Amsterdam ave.  
 Dwight, K. 4 *m*  
 31 Mt. Morris Park West  
 Dworsky, H. P. 3 *l* 239 E. 60  
 Dwyer, E. A. 1 *b* 477 Eighth,  
 Bklyn.  
 Dyar, A. L. *pl* 1230 Amsterdam ave.  
 Dyer, A. S. *ph* Hockley Saver  
 School, Tarrytown, N. Y.  
 Dyer, H. P. 4 *s* 627 W. 115  
 Eakins, L. H. gr *t* 435 New York  
 ave., Jersey City Heights  
 Earle, G. L. C. 1 *c* 145 W. 74  
 Eastman, H. W. 3 *c* Roslyn, L. I.  
 Eastman, L. P. 3 *b* 4 E. 70  
 Eastman, M. McC. 1 *b* 161 E. 81  
 Eastman, W. 1 *c* Roslyn, L. I.  
 Easton, K. 3 *c* 608 W. 113  
 Eaton, C. C. 1 *b* 206 W. 39  
 Ebling, R. W. 3 *s*  
 935 Prospect ave.  
 Echeverria, F. J. 3 *c* 141 W. 73  
 Eckstein, H. J. 3 *c* 36 W. 89  
 Eddingfield, F. T. 3 *s* 64 W. 96  
 Eddy, W. H. *p* 2410 Seventh ave.

- Edebohls, A. J. 3 s 59 W. 49  
 Edelstein, E. A. 2 c 1433 Madison ave.  
 Edgar, J. A. 3 m 71 Congress, Jersey City  
 Edwards, A. D. 2 t 1230 Amsterdam ave.  
 Edwards, L. M. pl Drew Theological Seminary, Madison, N. J.  
 Edwards, R. H. pl 700 Park ave.  
 Egan, J. L. 2 c 46 W. 120  
 Egbert, H. D. 2 c 425 W. 146  
 Egbert, N. A. 1 l  
 Egelson, L. I. ph 531 W. 123  
 Eggers, C. F. A. 2 m 55 Greenpoint ave., Bklyn.  
 Eggleston, C. p 43 Central ave., Tompkinsville, S. I.  
 Eggleston, J. D. sp b Elizabeth, N. J.  
 Egner, A. F. pl 1015 Broad, Newark, N. J.  
 Ehman, T. H. ph  
 Ehret, L. J. 1 s 1197 Park ave.  
 Ehrhardt, C. F. 3 m 668 E. 135  
 Ehrlich, E. M. sp b 54 W. 75  
 Ehrlich, L. I. sp b 54 W. 75  
 Eichborn, L. M. 1 m 320 E. 3  
 Eimer, A. O. 3 c 30 Irving pl.  
 Einstein, A. sp b 39 W. 57  
 Eisenberg, A. D. 3 m 386 E. 10  
 Elder, S. ph 1230 Amsterdam ave.  
 Eldredge, G. S. sp s Bway. and 112  
 Elgar, H. B. 2 l 275 W. 132  
 Elias, E. L. 1 b 18 W. 71  
 Elkins, J. C. ph Madison, N. J.  
 Elkus, S. A. ph 302 W. 87  
 Ellenbogen, M. G. 2 c 353 W. 120  
 Elliott, E. C. gr t 606 W. 115  
 Elliott, E. DuB. 3 c 115 W. 117  
 Elliott, G. R. B. 2 s 507 W. 112  
 Ellis, G. A. p 8 Convent ave.  
 Ellis, H. S. ph 1230 Amsterdam ave.  
 Elmendorf, W. Ten-E. 3 m 46 W. 93  
 Elsberg, A. M. 3 c 73 E. 66  
 Elsing, M. J. 2 s 283 Highland Boulevard, Bklyn.  
 Elsworth, H. J. ph 604 W. 114  
 Eltzner, D. 1 b 1427 Madison ave.  
 Emlyn, J. T. pl 225 W. 30  
 Emory, G. B. 4 m 101 W. 78  
 Emsheimer, H. 3 c 73 W. 95  
 Endelman, E. ph 130 Madison  
 Enfer, E. P. 1 m 510 E. 58  
 Engelbrekt, A. C. 2 t 31 Elm, New Rochelle, N. Y.  
 Engelson, J. E. 3 m 1968 Hughes ave.  
 Enos, H. C. 3 s 354 W. 120  
 Epstein, M. 1 c 1065 Second ave.  
 Erdwurm, E. 4 t 108 Orient ave., Jersey City, N. J.  
 Erler, E. W. 2 m 336 Sussex ave., Newark, N. J.  
 Ermann, S. 1 b 172 W. 79  
 Ernest, R. H. 4 s 413 W. 117  
 Ernst, A. E. 2 b 1370 Prospect ave.  
 Ernst, F. C. 1 b 152 W. 122  
 Ernst, M. 3 b 312 W. 119  
 Eron, J. E. ph 738 E. 180  
 Erskine, H. ph 524 W. 142  
 Erstein, R. 3 b 43 E. 63  
 Espinosa, A. 2 m 128 W. 61  
 Espinosa, C. 1 s 430 W. 118  
 Esselborn, C. A. f a 1785 Monroe ave.  
 Esselstyn, H. H. gr t 399 Lafayette ave., Bklyn.  
 Essex, W. L. 3 c 517 Manhattan ave.  
 Estee, R. G. 1 s 608 W. 113  
 Evans, A. B. 1 b 111 W. 124  
 Evans, A. P. 4 m 371 Stirling pl., Bklyn.  
 Evans, A. W. 3 s 614 W. 113  
 Evans, E. G. 3 b 418 W. 160  
 Evans, J. H. 3 c 534 W. 124  
 Evans, M. 4 t 417 W. 114  
 Evans, S. I. 4 t 524 W. 123  
 Everett, E. G. 1 b 227 St. Ann's ave.  
 Faber, G. W. 2 m 430 W. 20  
 Fackenthal, F. D. 3 c 93 Rodney, Bklyn.  
 Fagan, F. 3 t 3136 Bway.  
 Failing, C. R. 1 c 280 W. 115  
 Fairchild, R. D. 3 b 557 W. 124  
 Fairchild, R. P. 2 m 557 W. 124  
 Fairley, E. ph 826 Marcy ave., Bklyn.  
 Fales, J. T. 3 t 419 W. 118  
 Falion, G. M. 4 c 329 Pacific, Bklyn.  
 Falls, L. 3 t 500 W. 123  
 Falls, M. E. 3 t 500 W. 123  
 Farlow, F. A. 4 t 112 W. 129  
 Farmer, M. B. 4 b 1230 Amsterdam ave.  
 Farrell, J. R. 1 m 447 E. 149  
 Farrelly, G. M. 4 b 224 W. 137  
 Farrelly, S. V. 3 s Morristown, N. J.  
 Farrer, H. E. 2 s 205 Sunnyside ave., Bklyn.



Fasola, J. B. 3 l 1421 Bryant ave.  
 Fedter, B. ph 71 W. 107  
 Feifer, D. 1 l 109 E. 81  
 Feigenbaum, W. M. 1 c  
 122 Rockaway ave., Bklyn.  
 Feinstein, J. A. sp m  
 2197 Eighth ave.  
 Felberbaum, D. 3 m 168 E. 103  
 Feld, H. 1 m 218 E. 98  
 Feld, M. ph 115 Essex  
 Feldman, D. D. p  
 509 Throop ave., Bklyn.  
 Feldman, J. W. 1 m 340 E. 85  
 Feldman, L. M. f a 541 W. 124  
 Ferenczy, A. 3 s  
 1820 Lexington ave.  
 Ferrari, R. A. 3 c 415 E. 115  
 Ferris, M. D. 4 c 676 West End ave.  
 Ferris, O. B. sp c 126 Claremont  
 ave., Montclair, N. J.  
 Ferris, R. H. ph 41 E. 69  
 Fettretch, C. S. 3 s 335 W. 88  
 Fettretch, E. B. 4 b 335 W. 88  
 Feust, P. sp m 718 E. 138  
 Fezandré p 165 E. 66  
 Fiaschi, P. 4 m 509 Fifth ave.  
 Fiedler, A. 1 s 889 Greene ave.,  
 Bklyn.  
 Finch, J. K. 3 s 700 West End ave.  
 Finch, J. M. 2 s 78 Centre ave.,  
 New Rochelle, N. Y.  
 Findeisen, W. E. 1 m  
 138 Clarkson, Bklyn.  
 Findley, E. R. 4 c 317 W. 95  
 Fine, A. 3 m 236 Christopher,  
 Bklyn.  
 Fine, J. 1 l 309 Henry  
 Finegan, J. E. 3 l 419 W. 117  
 Fink, E. L. 1 b Westfield, N. J.  
 Fink, M. 3 m 1641 Madison ave.  
 Finkel, I. H. 2 s 23 Irving pl.  
 Finney, C. A. 3 l 274 W. 115  
 Finnigan, J. J. ph 157 W. 63  
 Fischer, E. E. 2 c 125 First  
 Fischer, H. A. 3 m 133 W. 122  
 Fischer, H. B. 1 l 129 W. 70  
 Fischer, H. M. pl 129 W. 70  
 Fish, H. P. 1 c 31 W. 90  
 Fisher, A. A. ph  
 1230 Amsterdam ave.  
 Fisher, A. F. 4 b 606 W. 113  
 Fisher, C. F. 3 m 242 Osborn,  
 Bklyn.  
 Fisher, C. H. ph 700 Park ave.  
 Fisher, J. R. 1 l 419 W. 117  
 Fisher, L. M. 4 t 41 E. 70  
 Fisher, T. E. 4 s 606 W. 113  
 Fisher, W. 1 l 540 W. 113

Fitch, E. H. 4 t 273 W. 84  
 Fitzgerald, F. T., Jr. 4 c  
 341 Riverside dr.  
 Flagg, E. P. 3 t  
 953 Manhattan ave., Bklyn.  
 Flanders, J. A. 2 s 414 W. 118  
 Flanigan, W. A. 2 c 534 W. 124  
 Fleissner, G. L. 2 s 246 E. 4  
 Fleming, W. ph Maplewood, N. J.  
 Flemming, E. A. 3 m  
 340 McDonough, Bklyn.  
 Fletcher, S. F. 4 b  
 278 Prospect pl., Bklyn.  
 Fletcher, W. T. gr i  
 463 Manhattan ave.  
 Flexner, M. pl  
 1230 Amsterdam ave.  
 Fliederblum, H. J. 1 l 306 W. 125  
 Flinn, V. G. pl 636 Sixth  
 Flower, H. J. 3 c Passaic, N. J.  
 Fluhrer, H. P. ph  
 Murray Hill Hotel  
 Fluhrer, L. P. 2 s 604 W. 114  
 Fluhrer, M. 1 l Murray Hill Hotel  
 Fontaine, A. C. gr t 541 W. 124  
 Fontaine, M. L. P. 3 b 541 W. 124  
 Fontrier, M. M. A. 4 c 202 W. 128  
 Foot, N. C. 2 m  
 Hotel Algonquin, W. 44  
 Foote, F. S., Jr. 4 s 429 W. 117  
 Forbes, F. B. 2 s 8 W. 56  
 Ford, F. C. 2 s  
 5 Mt. Morris Park West  
 Ford, F. G. 2 l Morristown, N. J.  
 Ford, W. A. 3 c 22 S. Bway.,  
 White Plains, N. Y.  
 Forden, J. R. 4 t 600 W. 125  
 Forman, A. G. 4 b 2394 7th ave.  
 Forrest, N. S. 4 t  
 828 St. Nicholas ave.  
 Forsch, H. 2 c 31 W. 86  
 Forsch, S. S. 3 c 31 W. 86  
 Forst, L. B. 3 s 102 W. 116  
 Forstot, S. 2 m 86 Norfolk  
 Fort, J. I. 2 m  
 Fortmann, A. 3 t 208 Morgan,  
 Union Hill, N. J.  
 Foshay, F. E. 3 b 315 Irving ave.,  
 Port Chester, N. Y.  
 Foss, F. H. 3 l 505 W. 124  
 Foster, W. E. ph  
 438 Manhattan ave.  
 Foucar, F. H. 2 m  
 1275 Lexington ave.  
 Foucht, P. L. pl 500 W. 123  
 Fowler, H. 1 c 60 E. 68  
 Fowler, R. H. 3 c 60 E. 68  
 Fowler, S. ph 417 W. 118

- Fox, A. L. *ph* 1010 Brooke ave.  
 Fox, E. F. *i b* 80 Joralemon,  
                     Bklyn.  
 Fox, F. G. *ph* 416 W. 118  
 Fraher, T. A. *i s* 254 W. 115  
 Frame, V. W. *ph* 7 W. 108  
 Franc, C. B., Jr. *3 s* 648 Tenth,  
                     Bklyn.  
 Francis, C. A. *3 t* 239 W. 141  
 Francis, W. C. *f a* 415 W. 118  
 Frank, C. D. *ph* 60 W. 13  
 Frank, E. E. *3 b* 138 W. 78  
 Frank, J. A. *i c* 28 E. 76  
 Frank, J. J. *4 c* 138 W. 78  
 Frankel, E., Jr. *4 m* 217 E. 17  
 Frankenthaler, G. *i l* 11 E. 87  
 Frankfield, H. *3 b* 26 W. 85  
 Franklin, M. *4 b* 257 W. 112  
 Fraser, A. J. *sp s*  
                     146 and Gerard ave.  
 Fraser, I. M. *3 t* 3136 Broadway  
 Frechtling, H. P. *2 l* 430 W. 116  
 Freed, J. H. *i b* 110 W. 74  
 Freedman, L. *i c* 500 E. 119  
 Frelinghuysen, P. H. B. *i l*  
                     27 W. 48  
 de Fremery, H. *p* 414 W. 118  
 French, R. M. *2 s* Webster ave.,  
                     New Rochelle, N. Y.  
 Freund, M. *3 s* 350 E. 116  
 Fricke, W. M. *3 b* 431 Riverside dr.  
 Fried, E. S. *i l* 47 W. 87  
 Fried, J. A. *2 s* 47 W. 87  
 Fried, R. *3 b* 1 W. 94  
 Frieder, W. *3 m* 16 E. 117  
 Friedland, A. A. *f a* 211 W. 106  
 Friedland, J. M. *2 s* 157 Ave. C  
 Friedman H. G. *pl*  
                     343 St. Ann's ave.  
 Friedman, H. M. *4 m* 300 Stanton  
 Friedman, S. S. *3 m* 209 E. 72  
 Friedman, W. H. *2 s*  
                     172 Rivington  
 Friess, L. L. *4 t* 536 Union ave.  
 Froeberg, S. *ph* 292 16, Bklyn.  
 Fröhlich, L. D. *i c*  
                     1833 Lexington ave.  
 Frost, L. M. *4 t* 175 8th ave.,  
                     Bklyn.  
 Frost, M. K. *ph* 419 W. 118  
 Frucht, S. *4 m* 10 W. 118  
 Fruchthandler, E. A. *4 m*  
                     706 Willoughby ave., Bklyn.  
 Fuchs, S. A. *2 c* 7 W. 118  
 Fuld, L. F. *3 l* 130 E. 110  
 Fulda, H. C. *i m* 107 Kent,  
                     Bklyn.
- Fulkerson, L. L. *2 m* 328 W. 46  
 Fuller, G. M. *3 t*  
 Fuller, L. S. *pl* 1230 Amsterdam ave.  
 Fulton, C. A. *2 s* 431 W. 117  
 Funk, M. L. *2 m* 157 W. 64  
 Furst, M. L. *3 t* Lowerre Sum-  
                     mit, Yonkers, N. Y.  
 Furst, S. *2 m* 952 Teller ave.  
 Furth, F. B. *2 b* 47 W. 88  
 Gabriel, B. R. *ph* Madison, N. J.  
 Gage, H. M. *ph* 700 Park ave.  
 Galacar, L. J. *3 t*  
                     19 Central Park West  
 Gallahan, F. *i l* 3136 Bway.  
 Gallaher, A. R. *3 t* 404 W. 124  
 Galloway, I. G. *ph* 320 Manhattan ave.  
 Galwey, C. *ph* 770 St. Nicholas ave.  
 Gano, L. E. *pl* 526 W. 114  
 Gans, J. *2 l* 206 W. 106  
 Gantert, C. P. *3 c* 548 W. 162  
 Garabedian, H. B. *ph* 25 E. 104  
 Gardiner, C. L. *2 b* 10 W. 103  
 Gardiner, C. R. *2 s*  
                     137 Edgecombe ave.  
 Gardner, W. *2 s* 416 W. 118  
 Garlock, M. B. *2 l* 439 W. 123  
 Garretson, E. M. *3 t* 1230 Amsterdam ave.  
 Garretson, L. B. *2 l* 11 E. 44  
 Garrety, W. P. *gr t* 35 E. 27  
 Gartrell, H. W. *p* 520 W. 123  
 Gash, A. J. *4 t* 25 E. 31  
 Gaskins, J. D. *4 m* 325 W. 58  
 Gast, R. S. *3 l* 500 W. 121  
 Gay, F. W. *3 s* 39 So. 10,  
                     Newark, N. J.  
 Gebhart, H. M. *2 t* 507 W. 112  
 Geer, W. M., Jr. *3 c* 227 Amity,  
                     Flushing, L. I.  
 Geiger, A. W. *4 s* 500 W. 121  
 Geist, S. H. *i m* 224 E. 87  
 Gelb, L. *i m* 283 Stanton  
 Gelbach, M. *i b* 417 W. 114  
 Gell, L. G. *3 t* Stapleton, S. I.  
 Georgen, C. B. *i m* 32 E. 23  
 Gere, L. B. *ph* 1161 Amsterdam ave.  
 Gerhard, H. W. *2 s* 39 Strong pl.,  
                     Bklyn.  
 Germansky, R. *i s* 30 Canal  
 Gerschanek, S. *pl* 274 W. 118  
 Gerster, J. C. A. *4 m* 34 E. 75  
 Gibert, F. E., Jr. *3 s* 627 W. 115  
 Gil, G. J. *2 m* 174 W. 82

Gilbert, C. A. *f a* Madison, N. J.  
*Gilbert, C. M.* 4 *t*  
 1230 Amsterdam ave.  
 Gilbert, J. H. *pl* 280 W. 115  
 Gilbert, M. W. *ph* 248 W. 129  
 Gillen, W. A., Jr. 3 *m*  
 119 Mercer, Jersey City  
 Gillespie, J. P. 4 *c*  
 Tarrytown, N. Y.  
 Gillette, A. C. 3 *l* 416 W. 118  
 Gillin, J. L. *pl* 231 E. 76  
 Gingles, M. M. 3 *t* 3133 Bway.  
 Ginsburgh, E. L. 4 *m* 9 E. 112  
 Gissel, H. W., Jr. 2 *m*  
 228 Keap, Bklyn.  
 Glanton, C. V. 4 *t* 533 W. 124  
 Glanton, L. P. 4 *t* 94 Lawrence  
 Godfrey, J. T. *gr t* 114 Union ave.,  
 Cranford, N. J.  
 Goedkoop, A. E. 1 *b*  
 1230 Amsterdam ave.  
 Goelet, R. W. *sp l* 591 Fifth ave.  
 Goertner, R. 3 *t* 12 W. 92  
 Goett, J. 1 *t* 1130 Jackson ave.  
 Goldbaum, L. 3 *s* 381 Sackman,  
 Bklyn.  
 Goldberg, A. 2 *m* 232 Fifth  
 Goldberg, H. 4 *s* 128 E. 86  
 Goldberg, S. 2 *s* 156 Varet,  
 Bklyn.  
 Goldberger, L. A. 3 *m* 2 Ave. D  
 Goldblatt, H. M. 1 *c*  
 302 E. Houston  
 Golde, M. I. D. 1 *b* 926 Putnam  
 ave., Bklyn.  
 Golden, A. *sp c* 228 Henry  
 Goldenweiser, A. *ph*  
 1489 Fifth ave.  
 Goldfarb, A. J. *p* 165 E. 105  
 Goldfarb, P. 3 *l* 132 16th ave.,  
 Paterson, N. J.  
 Goldfarb, S. J. 4 *m* 79 E. Bway.  
 Goldman, A. 3 *m* 50 E. 98  
 Goldman, B. *f a*  
 836 West End ave.  
 Goldman, H. *ph* 132 E. 70  
 Goldman, M. I. 2 *s* 414 W. 118  
 Goldsmith, E. M. *sp b* 50 W. 75  
 Goldsmith, I. I. 2 *l*  
 Marie Antoinette Hotel  
 Goldsmith, O. L. 3 *l* 156 W. 122  
 Goldstein, W. L. *f a* 502 W. 151  
 Goldstone, L. P., Jr. 1 *s*  
 416 W. 118  
 Goldwater, E. 4 *c* 355 E. 116  
 Goodale, H. D. *p* 526 W. 123  
 Goodbody, W. U. 1 *l*  
 Haledon, N. J.

Goodhart, H. 2 *b* 21 W. 81  
 Goodkind, M. 1 *c* 50 E. 102  
 Goodlatte, A. R. *p* Passaic, N. J.  
 Goodlatte, R. K. 3 *c* 429 W. 117  
 Goodman, E. 1 *c* 106 W. 86  
 Goodman, E. M. 3 *l* 430 W. 118  
 Goodman, F. V. *sp l* 131 W. 103  
 Goodrich, B. B. 3 *t*  
 1230 Amsterdam ave.  
 Goodsell, W. 4 *t*  
 1230 Amsterdam ave.  
 Goodwin, E. L. 1 *b* 2647 Broadway  
 Goodwin, H. H. 3 *s*  
 386 Manhattan ave.  
 Gordon, C. E. *p*  
 475 Manhattan ave.  
 Gordon, C. T. 3 *c* 36 East Park,  
 East Orange, N. J.  
 Gordon, D., Jr. 3 *m* 1 St. Felix,  
 Bklyn.  
 Gordon, E. O. 1 *b* 453 W. 155  
 Gordon, F. 2 *b* Guttenberg, N. J.  
 Gordon, L. *pl* 71 Halsey, Bklyn.  
 Gordon, P. A. 2 *c* Guttenberg, N. J.  
 Gorman, J. B. *pl*  
 Dunwoodie, N. Y.  
 Gorren, D. 2 *s* 429 W. 117  
 Gottesman, A. 3 *m* 278 E. 7  
 Gottschall, L. 4 *t* 925 Home  
 Gough, M. Z. 1 *b* 307 So. 8th ave.,  
 Mt. Vernon, N. Y.  
 Gould, K. 1 *s* 857 Fifth ave.  
 Gould, M. R. 1 *t*  
 1230 Amsterdam ave.  
 Gould, N. 4 *t* 1230 Amsterdam ave.  
 Graff, C. J. 2 *s* 721 E. 159  
 Graham, E. K. *ph* 540 W. 113  
 Graham, H. F. 4 *m* 144 W. 65  
 Graham, H. R. 1 *s* 536 W. 114  
 Graham, J. E. 3 *m* 40 W. 61  
 Graham, M. D. 4 *t*  
 1230 Amsterdam ave.  
 Granberry, D. W. 2 *m*  
 E. Orange, N. J.  
 Grant, A. A. 3 *t* 756 Seventh ave.  
 Grant, E. C. 4 *t* 418 W. 118  
 Grant, L. 2 *b* 246 W. 112  
 Grant, R. A. *ph*  
 2102 Lexington ave.  
 Grant, W. H. *p* 148 W. 132  
 Gravenhorst, P. G. 2 *l*  
 304 Carlton ave., Bklyn.  
 Graves, A. C. 1 *m* 101 Broad  
 Graves, J. M. 4 *t*  
 106 Morningside ave.  
 Gray, H. Y. 1 *b* 246 Fourteenth,  
 Bklyn.  
 Gray, J. H. 1 *m* 531 W. 155

- Gray, M. G. 4 b 246 14, Bklyn.  
 Gray, S. E. 4 t 10 W. 119  
 Gray, T. E. gr t  
 Greacen, E. M. f a 6 W. 50  
 Greeff, G. E. H. 3 c 627 W. 115  
 Green, E. H. 4 c 44 E. 75  
 Green, E. L. f a 892 West End ave.  
 Greenberg, J. ph 165 Broome  
 Greenberg, L. 1 m 52 E. 3  
 Greene, A. D. 4 b 49 W. 68  
 Greene, R. deC. 3 s 507 W. 112  
 Greenspan, S. 3 m 294 E. 3  
 Greenstein, S. sp b 60 W. 95  
 Greenwood, E. M. 3 b 233 W. 138  
 Greenwood, G. 3 t 435 W. 123  
 Greer, M. M. f a Governor's Island  
 Greiff, V. R. 2 s 379 West End ave.  
 Grendon, F. ph 343 Gates ave., Bklyn.  
 Grey, E. G. f a 32 Cambridge pl., Bklyn.  
 Grey, E. W. ph 32 Cambridge pl., Bklyn.  
 Griffin, E. F. 1 c Tarrytown, N. Y.  
 Griffin, E. P. ph 1891 Madison ave.  
 Griffith, J. M. 2 l 416 W. 118  
 Grimley, E. A. 2 l So. Boulevard, Bedford Pk.  
 Griswold, C. T. 3 s 312 W. 87  
 Griswold, F. K. 4 t 55 E. 11  
 Groat, G. G. pl 606 W. 115  
 Groeschel, L. B. 3 m 213 Alexander ave.  
 Grossman, L. J. 3 m 86 Seigel, Bklyn.  
 Groszmann, W. H. 4 c "Watchung Crest," Plainfield, N. J.  
 Grudberg, S. C. 2 m 311 E. 85  
 Gruenberg, B. C. p 69 W. 88  
 Gude, F. 1 c 129 W. 103  
 Guggenheim, E. A. 1 c 29 W. 76  
 Guile, H. V. 2 m 54 Pine  
 Haan, H. I. f a Fifth ave. and 55  
 Haas, E. J. sp b 7 E. 69  
 Haas, G. C. O. ph 64 E. 7  
 Haas, H. C. 4 s 131 E. 47  
 Haas, H. J. 3 l 157 W. 123  
 Haberman, J. V. 4 m 248 E. 61  
 Haefelin, F. J. 4 t 74 W. 124  
 Hagan, F. M., Jr. 1 l 521 W. 123  
 Hageman, G. R. 4 c 139 W. 84  
 Hagemann, R. H., Jr. 1 c 228 Johnson ave., Bklyn.  
 Hagen, O. R. 4 m  
 Hager, W. O. 4 c 33 Lawrence ave., Orange, N. J.  
 Hahn, A. W. 4 s 245 W. 130  
 Hahn, R. 1 c 368 W. 117  
 Hahnel, A. F. 4 s 1010 E. 165  
 Haight, C. M. 3 s 490 Lenox ave.  
 Haight, H. sp m 157 E. 30  
 Haight, J. McV. 2 c 116 and Riverside dr.  
 Haines, C. G. pl 138 W. 109  
 Haines, E. J. 4 s 878 St. John's pl., Bklyn.  
 Hall, C. D. 3 b 278 Prospect ave., Mt. Vernon, N. Y.  
 Hall, C. L. 1 s 419 W. 118  
 Hall, E. C. f a 608 W. 113  
 Hall, F. C. 2 c 429 W. 117  
 Hall, F. E. ph 93 Linden ave., Jersey City  
 Hall, M. F. f a 48 Downing, Bklyn.  
 Hallenbeck, A. H. gr t 413 W. 117  
 Haller, W. 1 c 172 W. 109  
 Hallock, F. B. 1 s 1 W. 128  
 Halpin, Z. P. 2 s 3472 Bway.  
 Hamburger, G. 4 m 52 E. 124  
 Hamilton, G. A. 4 c 2193 Bway.  
 Hammerschlag, H. A. 1 s 632 E. 147  
 Hammond, B. M. sp t 1230 Amsterdam ave.  
 Hammond, E. gr t 435 W. 123  
 Hamck, H. K. 2 s 210 W. 107  
 Hand, R. 3 s 371 W. 116  
 Handy, E. B. 4 b New Brighton, S. I.  
 Hangarter, A. H. 1 m 242 Humboldt, Bklyn.  
 Hanigan, A. H. 4 m 310 Park pl., Bklyn.  
 Hanke, A. G. 1 s 417 W. 117  
 Hanke, E. O. sp c 417 W. 117  
 Hankins, F. H. pl 361 W. 123  
 Hanna, H. J., Jr. 1 c 611 Amsterdam ave.  
 Harbeck, C. J. 4 m 306 Lexington ave.  
 Hard, S. 2 s 417 W. 117  
 Harding, E. pl 501 W. 120  
 Hardman, M. 3 l 415 W. 117  
 Harlam, E. J. 1 c 301 W. 105  
 Harper, H. 4 c 92 W. 103  
 Harper, P. T. 2 m 66 W. 71  
 Harper, R. M. p College Point  
 Harriman, M. 4 b 1 E. 55



Harrington, D. J. 1 m 366 W. 120  
 Harrington, G. A. 4 t 1230 Amsterdam ave.  
 Harrington, J. T. 3 m  
 Harris, H. B. 3 m 39 Cleveland, Orange, N. J.  
 Harris, H. G. 1 c 90 Church, Montclair, N. J.  
 Harris, H. H. 1 l 170 W. 94  
 Harris, H. S. 4 t 525 W. 123  
 Harris, L. I. 4 m 25 Avenue C  
 Harris, W., Jr. 2 c "Ansonia," 73 and Bway.  
 Harris, W. M. 2 l 54 Morningside ave.  
 Harrison, A. 1 s 50 W. 105  
 Harrison, M. S. 4 c 69 E. 122  
 Harrison, R. C. 3 l 78 Kingston ave., Bklyn.  
 Harrisson, L. 1 c 397 Gates ave. Bklyn.  
 Harshe, R. B. 4 t 3136 Bway.  
 Hart, A. 3 b 1230 Amsterdam ave.  
 Hart, F. B. 4 m 812 Lafayette ave., Bklyn.  
 Hart, L. 3 m  
 Hartman, W. 2 c 20 E. 95  
 Hartmann, H. G. ph. Bway. & Thrall pl., Woodhaven, L. I.  
 Hartmann, J. W. ph 309 E. 10  
 Hartnagel, C. A. p 554 W. 125  
 Hartog, V. 2 s 419 W. 118  
 Harvitt, H. J. 1 b 192 Hooper, Bklyn.  
 Harwich, M. 4 m 226 Eldridge  
 Haskell, A. 3 b 501 W. 120  
 Haskell, Mrs. H. S. ph 135 W. 90  
 Haskell, R. H. 2 c 111 W. 84  
 Hastings, H. W. 3 c 119 E. 86  
 Hasty, P. S. 4 t  
 Hatch, H. B. p 902 West End ave.  
 Hatheway, C. R. 3 t Stamford, Conn.  
 Hauck, H. 2 c 206 W. 106  
 Hauser, J. O. 1 c 14 E. 87  
 Havemeyer, F. C. sp l 244 Madison ave.  
 Haviland, J. B. 2 l 266 W. 107  
 Hawes, F. L. S. 2 c 13 Leland ave., New Rochelle, N. Y.  
 Hawkins, W. M. fa 514 E. 87  
 Hayes, C. H. pl 370 W. 116  
 Hayes, P. H. 4 m 144 W. 65  
 Haynes, A. F. 4 t 1230 Amsterdam ave.  
 Haynes, J. E. 3 b 2213 Fifth ave.  
 Hays, A. G. 3 l 254 W. 105

Hays, A. L. 2 b 254 W. 105  
 Hays, C. L. 1 l 525 W. 123  
 Hays, H. M. 4 m 254 W. 105  
 Hays, M. R. 1 b 9 W. 121  
 Hayward, V. S. 1 m 2731 Kingsbridge Terrace  
 Heady, M. B. 1 m 331 W. 58  
 Healy, E. J. 1 l Concourse and 183  
 Heaton, J. P. 4 c 1025 Bushwick ave., Bklyn.  
 Heckert, J. W. gr t 508 W. 130  
 Hedemann, F. F. 2 m 210 W. 72  
 Hedges, A. C. gr t 417 W. 118  
 Hedrick, C. B. ph 175 Ninth ave.  
 Hehre, F. W. 1 s 105 E. 96  
 Heidenheimer, A. B. 4 b 43 E. 58  
 Heidgerd, G. H. 2 s 142 W. 122  
 Heidtmann, A. W. 2 s 54 Mt. Vernon ave., Mt. Vernon, N. Y.  
 Heighe, F. C., Jr. 1 s 138 E. 37  
 Heim, L. 1 b 143 W. 119  
 Heiman, H. 3 c 1161 Amsterdam ave.  
 Heiman, J. 2 m 144 W. 113  
 Heiman, J. 1 c 1161 Amsterdam ave.  
 Heimann, E. 3 b 315 W. 105  
 Heimann, W. J. 4 m 315 W. 105  
 Hein, H. E. ph 1304 Fulton ave.  
 Hein, T. L. 4 m 6 W. 87  
 Heine, J. 4 m 76 E. 93  
 Heintze, R. W. ph 46 Irving pl.  
 Helbig, W. H. 1 m 362 W. 46  
 Hellenberg, L. H. 2 c 130 W. 136  
 Hellin, L. 2 b 1085 Park ave.  
 Hellman, A. M. 4 m 15 E. 92  
 Helmrich, E. W. 1 b 8 Franklin ave., New Rochelle, N. Y.  
 Helmrich, G. L. 1 s 8 Franklin ave., New Rochelle, N. Y.  
 Heltzén, O. L. sp l  
 Henderson, H. 2 b 7 Henry, Flatbush, N. Y.  
 Hendricks, E. 4 b 18 E. 80  
 Hendrickson, C. LeR. 2 l 614 W. 113  
 Henes, E., Jr. 2 c 128 E. 93  
 Henmon, V. A. C. ph 503 W. 124  
 Henry, M. W. 3 m 56 Clark, Bklyn.  
 Henschel, L. K. 3 m 1239 Washington ave.  
 Herbert, L. B. pl 112 W. 124  
 Herché, H. H. 3 l 93 W. 103  
 Hermstaedt, C. E. pl 636 Sixth  
 Hernandez, F. M. F. 1 m 145 W. 96

- Herreshoff, J. B. *fa* 521 W. 111  
 Herrick, J. C. *ph* St. Joseph's  
     Seminary, Yonkers, N. Y.  
 Herrmann, A. *ic* 234 E. 72  
 Herrmann, S. *3b* 147 W. 103  
 Hershfield, A. L. *ib* 159 E. 64  
 Hershman, A. M. *ph* 136 Madison  
 Herts, B. R. *ic* 69 W. 89  
 Herzberg, M. J. *2c* 170 Bruce,  
     Newark, N. J.  
 Herzfeld, B. F. *2b* 147 W. 86  
 Herzfeld, E. G. *pl* 147 W. 86  
 Herzfeld, M. G. *is* 210 W. 128  
 Hess, E. *3s* 340 E. 20  
 Hess, J. S. *2l* 50 Pine  
 Hetherington, F. S. *2c* 118 E. 56  
 Hetschel, C. M. *4t* 526 E. 153  
 Heuser, C. F. *4c* 521 W. 123  
 Heussler, A. F. *ph* 519 W. 123  
 Heydrick, B. A. *grt* 94 Hamilton pl.  
 Heyman, H. A. *is* 54 Edgcombe ave.  
 Heyman, H. K. *3l* 130 W. 131  
 Heyman, W. *4s* 148 Newark  
     ave., Jersey City  
 Hibbard, F. H. *4t* 1230 Amsterdam ave.  
 Higbie, J. R. *4c* 177 W. 73  
 Higgins, A. *ph* 401 Macon,  
     Bklyn.  
 Higgins, F. A. *ic* 59 W. 128  
 Higgins, J. C. *2l* 500 W. 121  
 Highsmith, J. H. *grt* 528 W. 123  
 Hilborn, J. *2b* 22 W. 96  
 Hill, A. L. *4b* 335 W. 84  
 Hill, H. W. *2s* 517 Manhattan ave.  
 Hill, J. A. *3t* 1230 Amsterdam ave.  
 Hill, R. T. *pl* 557 W. 124  
 Hiller, R. H. *ph* 222 E. 62  
 Hilmer, H. *ph* 499 W. 129  
 Hinckley, F. E. *pl* 419 W. 118  
 Hincks, R. B. *3l* 7 W. 37  
 Hines, C. S. *p* 557 W. 124  
 Hines, E. F. *p* 526 W. 123  
 Hinkle, A. M. E. *spb* 1230 Amsterdam ave.  
 Hinton, E. *3t* 135 W. 104  
 Hirschberg, S. *3c* 302 Central Park West  
 Hirsh, R. T. *is* 164 E. 72  
 Hitlin, A. *4m* 72 McKibben,  
     Bklyn.  
 Hoadley, H. *ph* 140 W. 13  
 Hochheimer, H. A. *4b* 1311 Madison ave.  
 Hochschild, S. C. *2s* 317 W. 114  
 Hodges, H. M. *3t* 1230 Amsterdam ave.  
 Hodgetts, A. S. *ph* 226 Bay 35,  
     Bklyn.  
 Hodgkins, G. *ph* 135 W. 104  
 Hoenninger, J. C. *2l* 54 E. 108  
 Hoermann, M. A. L. *ib* 1208 Bloomfield, Hoboken, N. J.  
 Hoerner, G. *il* 519 W. 123  
 Hoexter, H. H. *3t* 786 Cauldwell ave.  
 Hoff, H. C. *2m* 1779 Madison ave.  
 Hoffman, A. *p* 217 Hewes, Bklyn.  
 Hoffman, F. K. *2l* 519 W. 123  
 Hoffman, J. J. *ph* 700 Park ave.  
 Hoffman, M. *3l* 49 W. 95  
 Hoffman, M. E. *4b* 356 Henry,  
     Bklyn.  
 Hofheimer, H. *2l* 318 E. 19  
 Hoguet, J. P. *2m* 141 and Hudson River  
 Hoguet, R. *3l* 141 and Hudson River  
 Holbert, H. H. *is* Church,  
     Kingsbridge, N. Y.  
 Holbrook, M. G. *pl* 12 W. 17  
 Holden, E. S. *3b* 414 W. 118  
 Holland, H. S. *4m* 473 W. 152  
 Holland, T. B. *ph* 175 Ninth ave.  
 Holliday, E. P. *2s* 45 Brevoort  
     pl., Bklyn.  
 Hollister, S. T. *3c* 61 E. 91  
 Hollmann, F. W. *4s* 1851 Madison ave.  
 Holloway, J. H. *grt* 611 E. 140  
 Holmes, J. A. *p* 10 Regent pl.,  
     Bklyn.  
 Holmquist, G. S. *is* 308 W. 93  
 Holslag, C. J. *is* 225 W. James,  
     Peekskill, N. Y.  
 Holt, R. G. *2m* 157 W. 64  
 Holter, P. C. H. *2c* 649 Summit  
     ave., Jersey City  
 Holtzoff, A. *ic* 805 Ninth ave.  
 Holzman, A. C. *3m* 937 Bushwick ave., Bklyn.  
 Hooper, C. T., Jr. *pl* 700 Park ave.  
 Hooper, G. H., Jr. *4s* 141 W. 47  
 Hoooven, A. T. *sp s* 430 W. 118  
 Hope, E. E. *3t* 1230 Amsterdam ave.  
 Hope, I. M. *p* 130 W. 123  
 Hopkins, A. H. *fa* 521 W. 123  
 Hopkins, E. B. *2t* 284 Lexington ave.  
 Hopkins, F. L. *2c* 210 Elm,  
     Yonkers, N. Y.

Hopping, A. T. 2 c 532 W. 114  
 Horan, C. T. 1 l 430 W. 118  
*Horan, M. E. sp b 7 W. 92*  
 Hornblower, G. S. 1 l 5 E. 89  
 Hornblower, L. W. 1 l 5 E. 89  
 Hornidge, H. T. 2 l 421 E. 51  
 Hosford, L. P. 3 s 529 2d, Bklyn.  
 Hoshino, K. 3 c 64 E. 133  
 Hoster, M. T. 1 s 40 Prospect  
 Terrace, E. Rutherford, N. J.  
 House, E. C. 1 s 604 W. 114  
 House, H. A. 2 s 158 W. 81  
 Houston, J. F. 1 b 120 Lenox ave.,  
 East Orange, N. J.  
 Houston, O. R. 2 l 25 Mt. Morris Park West  
 Howard, E. L. 3 t 1230 Amsterdam ave.  
 Howard, H. E. 1 s 369 W. 120  
 Howard, M. E. 4 t 509 W. 112  
 Howe, R. B. pl 137 W. 110  
 Howe, W. E. sp c 175 Ninth ave.  
 Howell, A. S. 3 t 1230 Amsterdam ave.  
 Howell, E. T. D. 3 m 2147 Seventh ave.  
 Howell, J. M. 3 s 525 W. 123  
 Howes, H. W. 3 l 4 W. 105  
 Howland, DeR. 3 m 129 W. 61  
 Hoyns, G. W. 2 s Fort Washing-  
 ton ave. and Depot lane  
 Hoyt, F. S. gr t 416 W. 118  
 Hoyt, J. R. 3 s 9 W. 32  
 Hoyt, S. F. 4 b 17 E. 95  
 Hubbard, F. A. f a Richmond Hill, L. I.  
 Hubbard, F. M. gr t 6 Highland  
 ave., White Plains, N. Y.  
 Hubbard, G. A. ph 621 W. 113  
 Hubbard, G. A. pl 94 Hamilton pl.  
 Hubbell, A. H. 1 s 154 Jamaica  
 ave., Bklyn.  
 Hudson, H. K. 1 s 1 E. 76  
 Hufeland, E. 1 b 121 N. High,  
 Mt. Vernon, N. Y.  
 Hufeland, M. A. 1 b 121 N. High,  
 Mt. Vernon, N. Y.  
 Hughes, G. E. ph 420 W. 118  
 Hughes, H. D. f a 519 W. 123  
 Hulbert, G. A. ph 700 Park ave.  
 Hull, A. 4 m 8736 Bay 15,  
 Bklyn.  
 Humphrey, F. L. 4 s 524 W. 123  
 Humphreys, E. W. p 2155 Bathgate ave.  
 Humphreys, G. H. 1 m 1225 Madison ave.

Hunsdon, E. C. 1 b 43 Liberty  
 ave., New Rochelle, N. Y.  
 Hunt, A. P. pl 1 Chelsea Square  
 Hunt, C. S. 4 m 12 W. 60  
 Hunt, J. J. 1 m 402 W. 58  
 Hunt, L. C. pl Drew Theological  
 Seminary, Madison, N. J.  
 Hunter, J. M. pl 175 Ninth ave.  
 Huntington, E. I. 1 c 49 E. 20  
 Huntington, W. C. 2 s 841 N. Broad, Elizabeth, N. J.  
 Hunting, E. 4 t 1230 Amsterdam ave.  
 Huntzicker, F. J. 1 s 204 Lenox ave.  
 Hurlburt, K. M. ph 415 W. 118  
 Hurley, M. L. 1 s 234 W. 114  
 Hurty, K. E. 2 b 874 West End ave.  
 Hurwitz, D. E. 2 l 8 W. 119  
 Hurwitz, F. 1 m 238 Sackman,  
 Bklyn.  
 Hussakof, L. p 1 Pike  
 Hutcheson, A. C. 4 m 318 W. 57  
 Hutchinson, E. J. 4 b 501 W. 120  
 Hutchinson, R. H. 4 m 530 W. 143  
 Hutton, A. L. 4 m 319 W. 107  
 Hutton, M. S. 2 s 319 W. 107  
 Huyck, R. P. 3 m 31 W. 65  
 Hyams, J. A. 4 m 409 E. 118  
 Hyde, H. St. J. p 210 E. 18  
 Hyman, A. 4 m 124 E. 64  
 Hyman, D. E. 3 m 113 Ludlow  
 Hyman, M. 4 c 124 E. 64  
 Iba, K. pl 132 W. 98  
 Ingle, F. R. f a 930 West End ave.  
 Ingraham, E. A. ph 444 Clinton ave., Bklyn.  
 Ingraham, O. pl 444 Clinton ave., Bklyn.  
 Intemann, H. C. 3 l 848 Union ave.  
 Irving, L. H. pl Henderson ave.,  
 New Brighton, S. I.  
 Isaacs, S. S. 3 c 134 E. 96  
 Ishimura, S. pl 330 E. 57  
 Iskowitz, H. 4 m 66 Second ave.  
 Isles, M. M. 4 t 416 W. 124  
 Israel, M. B. 2 b 25 E. 99  
 Ittelson, M. 3 m 76 E. 101  
 Ivins, W. M., Jr. 1 l 25 Madison ave.  
 Iyengar, S. D. S. sp s 353 W. 119

- Jabine, W. 2 c 365 Warburton  
ave., Yonkers, N. Y.
- Jackson, A. F. 4 m 119 W. 104
- Jackson, C. F. H. 2 c  
Westchester, N. Y.
- Jackson, F. W. 1 l  
692 West End ave.
- Jackson, K. ph 439 W. 123
- Jacobs, C. L. 1 t 28 W. 118
- Jacobs, E. 2 b 92 Morningside ave.
- Jacobs, L. ph 242 E. 30
- Jacobs, S. B. 3 s 434 Hawthorne  
ave., Yonkers, N. Y.
- Jacobs, W. A. p 201 W. 111
- Jacobstein, M. pl 318 W. 121
- Jaffe, H. M. 2 m 423 Grove st.,  
Jersey City
- Jaffin, A. E. 4 m 299 R. R. ave.,  
Jersey City
- Jagle, E. C. p 150 E. 30
- James, B. C. 3 b Rahway, N. J.
- James, H. 2 m 226 W. 75
- Jameson, C. B. gr t 47 W. 119
- Jameson, J. W. 4 m 317 W. 56
- Jamieson, M. D. sp t  
1230 Amsterdam ave.
- Jané, A. C. 3 m  
Guantanamo, Cuba
- Janeway, F. L. pl 700 Park ave.
- Janeway, W. R. 2 m 5 St. Mark's  
pl., New Brighton, N. Y.
- Jansen, W. 1 t 532 E. 150
- Jaques, G. W., Jr. 1 c  
112 W. Jersey, Elizabeth, N. J.
- Jarmulowsky, A. 3 l 102 E. 60
- Jarvie, M. S. ph  
293 Clermont ave., Bklyn.
- Jeal, E. R. 1 s Lawrence, L. I.
- Jeidell, H. (Mrs. Edw. J.) 1 b  
407 W. 148
- Jellenik, I. E. 2 b 18 E. 60
- Jenkins, Mrs. H. T. 4 t  
1230 Amsterdam ave.
- Jenkins, J. C. 2 s 173 W. 85
- Jenkins, M. G. 1 l 173 W. 85
- Jessup, D. W. 1 s  
1268 Amsterdam ave.
- Jewell, I. E. 4 t  
1230 Amsterdam ave.
- Jobbins, E. P. 1 c  
902 West End ave.
- Jochum, H. L. 4 s 465 E. 57
- Joelson, M. S. 3 m 66 E. 101
- Joffé, J. A. ph 530 W. 123
- Johnson, A. L. gr t 211 Hally,  
Cranford, N. J.
- Johnson, A. M. 3 s  
551 Manhattan ave.
- Johnson, E. E. 1 b Woodhull  
ave., Hollis, N. Y.
- Johnson, Mrs. E. H. ph  
521 W. 111
- Johnson, F. f a 354 W. 120
- Johnson, F. A. 3 m 129 W. 61
- Johnson, H. N. sp s 363 W. 117
- Johnson, L. P. 2 b 419 W. 118
- Johnson, R. McL. 3 s 540 Clifton  
ave., Newark, N. J.
- Johnson, T. J. A. 1 m 203 W. 33
- Johnston, M. E. 4 m 127 W. 61
- Johnston, M. L. 4 b  
774 West End ave.
- Johnston, W. B. 1 s  
774 West End ave.
- Johnston, W. H. 2 t  
996 Lafayette ave., Bklyn.
- Joly, C. L. 1 s 65 W. 87
- Jones, A. J. gr t  
1293 Amsterdam ave.
- Jones, E. C. 1 s 165 Madison ave.
- Jones, L. s 136 W. 65
- Jones, M. E. 4 t 417 W. 114
- Jones, O. L., Jr. 1 l 116 W. 72
- Jones, R. C. 3 s 244 W. 99
- Jones, R. M. 4 s 111 W. 103
- Jones, S. S. 1 t  
320 St. Nicholas ave.
- Jones, T. C. p  
22 Morningside ave.
- Jones, T. M. f a 333 W. 87
- Joseph, D. H. 3 c 266 W. 121
- Joseph, J. A., Jr. 1 c 133 W. 80
- Joseph, S. pl 2 W. 112
- Josephi, E. 1 b 321 Riverside dr.
- Josephi, R. 3 s 28 W. 95
- Josephs, I. S. 4 c 111 Lenox ave.
- Joshi, S. L. pl 700 Park ave.
- Jouard, F. L. p 337 E. 68
- Joyce, E. R. 4 m 158 E. 65
- Kaempfer, L. G. 4 m  
300 Central Park West
- Kagan, F. 2 t 225 E. 63
- Kahle, H. 2 s 411 W. 117
- Kahn, A. f a 5 E. 106
- Kahn, E. J. f a 50 E. 83
- Kahn, M. M. 3 c 27 St. Mark's pl.
- Kaighn, R. P. gr t 420 W. 118
- Kaiser, G. H. 3 c 214 W. 92
- Kaliski, D. J. 4 m 103 E. 103
- Kanner, S. H. 4 m 416 E. 85
- Kanolt, C. W. p 412 W. 115
- Kanter, J. B. 4 m 33 Forsyth
- Kaplan, C. 4 b 98 E. Broadway
- Kaplan, H. 3 s 109 Ludlow



Kashiwai, E. *ph* 700 Park ave.  
 Katz, H. M. *i s* 505 W. 124  
 Kaufman, A. *3 s* 256 W. 129  
 Kaufman, I. *3 m* 662 Robbins ave.  
 Kaufmann, C. *3 l* 210 E. 68  
*Kaufmann, J. H. i b* 1 W. 94  
 Kaufmann, S. W. *3 l* 25 E. 76  
 Kauwitz, J. *4 m*  
 Kawai, K. *ph* 700 Park ave.  
 Kaye, B. M. *4 c* 2067 7th ave.  
 Keating, T. S. *2 m*  
 316 Willoughby ave., Bklyn.  
 Kedian, W. M. *fa* 307 E. 30  
 Keeler, E. G. *i t* 457 W. 123  
 Keeler, F. Y. *3 c* 429 W. 117  
 Keeney, C. B. *2 m* 11 Bway.  
 Keeney, S. *2 b* 48 W. 94  
 Keep, A. B. *pl* 519 W. 123  
 Keery, H. D. *fa* 117 W. 79  
 Kehrlein, E., Jr. *sp c* 620 W. 115  
 Kehrlein, O. DuF. *2 m*  
 620 W. 115  
 Keith, J. L. *i l* 143 W. 122  
 Keith, J. S. *i l* 143 W. 122  
 Keller, E. I. *ph* 27 E. 62  
 Keller, J. A. *4 m* 343 W. 121  
 Keller, M. *2 m* 83 Essex  
 Keller, S. C. *4 m* 529 Bway.,  
 Paterson, N. J.  
 Keller, W. B., Jr. *i s* 252 W. 76  
 Kelley, J. *gr t* 408 W. 124  
 Kelley, W. E. *2 c* 116 and 7th ave  
 Kellington, H. E. *ph*  
 700 Park ave.  
 Kellogg, L. O. *3 s* 605 W. 115  
 Kellogg, P. U. *ph* 105 E. 22  
 Kellogg, W. A. *i c*  
 917 Seventh ave.  
 Kells, L. C. *ph*  
 174 St. Nicholas ave.  
 Kemp, W. C. B. *pl* 266 W. 107  
 Kendall, E. C. *i s* 526 W. 123  
 Kendler, J. *3 c* 5 E. 104  
 Kennedy, A. J. *4 b*  
 1230 Amsterdam ave.  
 Kennedy, M. S. *ph* 124 W. 126  
 Kenney, A. L. *3 l* 370 W. 118  
 Kerner, A. M. *i b* 1230 Amster-  
 dam ave.  
 Kerns, M. I. *3 t*  
 1230 Amsterdam ave.  
 Kerr, H. P. *i t* 100 Highland ave.,  
 Yonkers, N. Y.  
 Keune, H. A. *4 m* 70 W. 120  
 Khaul, B. *gr t*  
 10 St. Nicholas Terrace  
 Kibbe, E. J. *3 m* 119 W. 63  
 Kilbourne, C. G. *3 s* 357 W. 115

Kilbourne, S. S. *ph*  
 175 Ninth ave.  
 Kilian, T. P. *3 s* 421 W. 144  
 Kiliani, R. B. *sp c* 116 E. 57  
 Kilroc, E. P. *2 l* 166 Grand,  
 Jersey City  
 Kimball, P. W. *3 m* 247 W. 74  
 Kincaid, M. *i s* 695 Ninth ave.  
 King, C. A. *4 s* 627 W. 115  
 King, G. W. *i l* 230½ Second,  
 Jersey City  
 King, H. F. *3 s* 604 W. 114  
 King, H. L. *ph* 360 W. 117  
 King, W. W. *ph* 3134 Bway.  
 Kingsley, D. M. *fa* 457 W. 123  
 Kingsley, R. *3 m* 225 Riverside dr.  
 Kinsey, R. G. *3 s* 520 W. 123  
 Kirby, C. M. *3 s* 541 W. 124  
 Kirk, E. *2 c* 554 W. 125  
 Kirschberg, H. *3 s* 30 W. 128  
 Kissel, D. *i b* 15 W. 16  
 Kissell, M. L. *3 t*  
 1230 Amsterdam ave.  
 Kitson, H. W. *i s* 510 W. 124  
 Klaber, E. H. *3 s* 389 Manhattan ave.  
 Klaber, W. *4 c* 389 Manhattan ave.  
 Klauber, B. *i t* 42 W. 88  
 Kleeberg, G. S. P. *4 c*  
 3 Riverside dr.  
 Klein, B. *2 b* 100 W. 80  
 Klein, D. *ph* 345 E. 3  
 Klein, F. E. *4 c* 206 E. 30  
 Klein, M. I. *i b* Floral Park, L. I.  
 Kleinberg, S. *i m* 109 Ridge  
 Kleinknecht, H. *ph* 323 E. 58  
 Klenke, J. H., Jr. *fa*  
 1165 Park ave.  
 Kline, H. J. *3 s* 635 E. 9  
 Klocek, M. J. *i t*  
 Winfield Junction, L. I.  
 Knakal, W. R. *3 s* 1042 First ave.  
 Knapp, R. E. *2 m* 110 Main,  
 Hackensack, N. J.  
 Knauff, G. *ph* 175 Ninth ave.  
 Kniffin, L. M. *3 s* 27 Ryle ave.,  
 Paterson, N. J.  
 Knight, C. C. *3 s* 221 W. 49  
 Knight, C. W. *p* 505 W. 124  
 Knight, H. H. *i s* Fanwood, N. J.  
 Knight, J. L. *i s* 221 W. 49  
 Knight, W. D. *2 c* 544 W. 113  
 Knox, E. E. (Mrs.) *fa*  
 210 Tenth, Hoboken, N. J.  
 Knox, E. M. *3 b* 256 W. 123  
 Kobbé, F. W. *i c* 142 E. 18

- Kobbé, G. L. 2 l 109 E. 29  
 Kobbé, H. 1 s  
     Riverside dr. and 116  
 Kobler, E. W. 3 m 39 W. 92  
 Koch, E. H., Jr. p  
     125 Willoughby ave., Bklyn.  
 Koechel, O. R. 1 l  
     47 Montgomery pl., Bklyn.  
 Koenig, N. A. ph 80 W. 12  
 Koff, J. J. 4 m 64 E. 93  
 Kohlberg, H. S. 2 c 8 W. 131  
 Kohlberg, W. L. sp c 8 W. 131  
 Kohler, L. F. 4 s  
     108 Morningside ave.  
 Kohlman, N. f a 28 E. 119  
 Kohn, B. 4 m 3 W. 114  
 Kohn, I. C. 2 b 13 E. 75  
 Kohn, J. A. 1 l 18 E. 95  
 Kohn, L. ph 1138 Madison ave.  
 Kohut, E. 3 b 44 W. 58  
 Koken, W. T. sp s 505 W. 112  
 Kolsky, I. 1 m  
     798 Lexington ave.  
 Kottman, W. pl 60 Chrystie  
 Kouwenhoven, H. W. 3 l  
     Lincoln ave., Jamaica, N. Y.  
 Kovar, A. ph 104 W. 109  
 Kozminsky, L. M. 1 s 557 W. 124  
 Kraetzer, E. R. 3 c 267 W. 139  
 Kraft, W. J. f a 65 Prospect  
     ave., Mamaroneck, N. Y.  
 Kramer, H. F. 2 m 84 Tillary,  
     Bklyn.  
 Kramer, I. 1 m 147 Lenox ave.  
 Krans, E. S. 2 m 29 W. 84  
 Kraus, A. 1 s 508 E. 89  
 Krauss, F. I. 3 c 12 Washington  
     pl., E. Orange, N. J.  
 Kraut, M. 4 s 312 W. 99  
 Krehbiel, H. V. 3 c  
     1186 Madison ave.  
 Kress, O. 3 s 241 W. 101  
 Kreuder, H. E. 3 s 62 W. 97  
 Kroeber, E. p 207 W. 107  
 Kröger, H. A. 1 s  
     Spuyten Duyvil, N. Y.  
 Kropff, A. H. 2 s 136 W. 119  
 Krueger, K. O. P. 3 s 526 W. 123  
 Krumwiede, C., Jr. 4 m  
     57 W. 84  
 Kruse, F., Jr. 2 s 7 W. 101  
 Kudlich, H. F., Jr. 1 c 153 W. 21  
 Kunz, G. H. 1 c 534 W. 124  
 Kunz, K. A. 4 t  
     1230 Amsterdam ave.  
 Kupfer, E. p 44 W. 97  
 Kurpick, C. F. 4 m  
     St. Francis Hospital
- Kurr, F. L. 1 s 465 W. 147  
 Kutscher, M. 4 m 100 Broad,  
     Stapleton, S. I.  
 Kuwashima, H. pl 140 Nassau,  
     Bklyn.  
 Kyte, J. H. 1 s 519 W. 123
- Laden, J. E. gr t 212 W. 124  
 La Fétra, W. W. 1 l 54 W. 104  
 Lage, F. 2 s 354 W. 120  
 Lamb, A. R. 2 m 226 W. 75  
 Lamb, E. G. pl 700 Park ave.  
 Lamb, M. A. sp t  
     1230 Amsterdam ave.  
 Lamb, W. W. ph  
     94 Hamilton pl.  
 Lambord, B. F. f a  
     100 Hamilton pl.  
 Lamme, M. A. p  
     841 Lexington ave.  
 Lamont, J. R. 4 c 1 Third pl.,  
     Bklyn.  
 Landers, M. H. 3 s 614 W. 113  
 Landesman, I. L. 3 m 309 E. 4  
 Landsman, I. J. 3 m 15 E. 113  
 Landsman, S. 2 s 445 W. 40  
 Lane, C. J. 3 l 26 E. 109  
 Lane, C. J. gr t Pearl River, N. Y.  
 Lang, A. G. 4 s 357 W. 117  
 Lang, E. sp c 120 W. 89  
 Langworthy, H. M. 1 l  
     416 W. 118  
 Larkin, A. G. 2 m 363 W. 19  
 Lasell, G. M. pl 417 W. 118  
 Lash, J. H. pl 700 Park ave.  
 Lasher, F. H. 3 m  
 Latham, H. 4 t 416 W. 118  
 Latham, M. E. p 417 W. 148  
 Lathrop, S. A. ph Horace Mann  
     School, West 120  
 Latta, J. B. 4 m 325 W. 58  
 Lau, R. J. ph 357 Hunterdon,  
     Newark, N. J.  
 Lavell, C. F. pl 56 W. 105  
 Lawlor, M. J. 3 m 129 W. 64  
 Lawrence, A. S. ph  
     175 Ninth ave.  
 Lawrence, C. 3 l 521 W. 123  
 Lawrence, G. A. 2 l  
     784 Park ave.  
 Lawrence, L. M. 4 t  
     1230 Amsterdam ave.  
 Lawrie, H. N. 3 s 310 W. 107  
 Lawyer, L. R. gr t 155 W. 140  
 Lay, S. E. 2 b 2137 Fijth ave.  
 Lazinski, A. 4 s 220 W. 136  
 Lease, B. H. ph 64 E. 122

Leber, O. H. 1 m 928 Bloomfield,  
Hoboken, N. J.  
Lebowitz, E. F. 3 m 1634 Madison ave.  
Lebowitz, W. 2 s 183 Second  
Lederer, M. 3 m 164 Lorimer,  
Bklyn.  
Lee, A. D. 3 b 1230 Amsterdam ave.  
Lee, M. 4 t 1230 Amsterdam ave.  
Lee, M. D. 4 b North ave.,  
New Rochelle, N. Y.  
Lee, W. R., Jr. 3 m 314 W. 56  
Lee, Y. p 29 W. Houston  
Lefferts, M. C., Jr. 1 s 34 E. 65  
Leibenderfer, R. J. 2 l 418 W. 118  
Leibson, J. J. ph 73 Second ave.  
Leiper, M. A. gr t 54 W. 104  
Leland, A. P. 4 b 1230 Amsterdam ave.  
Leland, F. 4 b 943 Lexington ave.  
LeRoy, R. 4 c 28 Seventh ave.  
Lesh, J. A. pl Madison, N. J.  
Leslie, C. T. 4 m 261 Greene  
ave., Bklyn.  
Lester, M. L. 3 t 1230 Amsterdam ave.  
Leuchs, F. A. H. 1 c 628 E. 145  
Leuchs, M. J. C. p 628 E. 145  
Levant, H. L. 4 m 645 St. Ann's ave.  
Levene, S. A. 2 m 84 E. 107  
Leventritt, L. L. 3 c 34 W. 77  
Levin, C. 4 m 165 Broome  
Levin, H. 2 s 216 E. 14  
Levine, B. M. 3 m 1567 First ave.  
Levy, A. S., Jr. 2 c 24 W. 43  
Levy, B. 2 c 202 E. 68  
Levy, B. M. 4 c 224 E. 118  
Levy, E. fa 267 W. 113  
Levy, E. B. 1 l 20 2d ave.,  
New Brighton, S. I.  
Levy, E. L. 4 b 53 E. 73  
Levy, F. A. ph 214 W. 30  
Levy, H. 4 m 465 W. 57  
Levy, H. A. p 23 W. 112  
Levy, I. J. 1 m 119 W. 64  
Levy, J. 3 l 18 W. 115  
Lewin, J. C. 1 s 101 N. Main,  
Port Chester, N. Y.  
Lewine, H. S. 2 c 813 Lexington ave.  
Lewinson, L. J. p 129 E. 95  
Lewis, A. B. ph 500 W. 131  
Lewis, A. H. gr t Greenwich, Ct.  
Lewis B. L. 3 b 331 S First ave.,  
Mt. Vernon, N. Y.

Lewis, H. T. 3 m 209 W. 8,  
Plainfield, N. J.  
Lewis, J. P. 1 l 521 W. 123  
Lewis, L. C. 1 c 80 Perry  
Lewis, M. E. 4 m  
Lewis, M. W. 3 l 521 W. 123  
Lewis, R. C. 4 c 934 West End ave.  
Lewisohn, J. A. 4 c 9 W. 57  
Lewisohn, S. A. 1 l 9 W. 57  
Lewyn, O. M. 1 s 50 E. 91  
Lichten, D. E. sp b Hotel Wood-  
ward, Bway. and 55  
Lichtenberg, J. C. A. A. 3 s 60 W. 129  
Lichtenberger, J. P. pl 41 W. 119  
Lichtenstein, G. 2 m 58 E. 107  
Lichter, B. A. 1 c 1723 Madison  
ave.  
Lichtig, A. 3 l 373 W. 116  
Lieb, C. C. 3 m 317 W. 57  
Lieber, E. B. 1 b 1230 Amsterdam ave.  
Liebler, T. A., Jr. 2 c 512 W. 149  
Liebmann, C. von E. 1 b 501 W. 113  
Liebowitz, S. Z. 1 b 122 E. 70  
Lilienthal, F. P. 3 b 60 W. 129  
Lin, P. 1 t 206 W. 114  
Linaberry, F. R. 2 c 233 W. 122  
Lindeman, H. E. 3 m 129 W. 93  
Lindo, A. 2 s 237 W. 76  
Lindsay, G. 4 m 311 W. 111  
Lindsley, G. L. 3 s 517 Manhattan ave.  
Lingley, C. R. pl 522 W. 123  
Link, H. A. 1 c 627 E. 154  
Lipke, J. 4 t 234 Sixth  
Lippmann, F. B. 3 c 113 E. 81  
Lipschutz, J. M. 4 m  
Lipscomb, D. ph 1033 Macy pl.  
Lipsky, A. pl 430 W. 118  
Lisle, H. L. 1 t 121 W. 111  
Lisman, O. C. 2 s 1230 Amsterdam ave.  
165 Park ave.,  
Mt. Vernon, N. Y.  
Lissey, B. sp m 23 E. 107  
Litchfield, R. B. 2 s 203 Clinton,  
Bklyn.  
Littenberg, S. J. 1 m 333 E. 57  
Little, J. M. 2 s 457 W. 123  
Livermon, M. 2 t 1230 Amsterdam ave.  
Lobdell, J. N. 3 t Dobbs Ferry, N. Y.  
Lock, M. 4 b 521 W. 123

- Loder, I. H. 3 c 461 S. Main,  
Port Chester, N. Y.
- Loeb, H. B. 1 b 12 W. 84
- Loening, R. R. 2 l 152 W. 76
- Loew, C. E. 3 l 501 W. 120
- Loew, F. 4 b 10 Amsterdam ave.
- Lohman, H. W. p  
531 Manhattan ave.
- Lomer, G. R. gr t 604 W. 115
- London, M. 4 c 64 W. 115
- Long, K. M. 3 t  
1230 Amsterdam ave.
- Long, W. B. 4 c Hotel Regent
- Long, W. C. sp c 59 W. 44
- Longwell, R. A. 1 s 413 W. 117
- Lord, M. E. 2 b 136 State, Bklyn.
- Loshe, L. D. ph 419 W. 118
- Love, T. R. 3 m 56 Clark, Bklyn.
- Loveless, A. L. f a 418 W. 118
- Loveman, H. S. 4 s 210 W. 139
- Low, E. I. 3 l 71 E. 55
- Lowd, E. F. ph 419 W. 118
- Lowenthal, A. 1 b Woodside, N. Y.
- Lowie, R. H. ph 138 W. 117
- Lublensky, N. A. ph 428 E. 58
- Lublin, C. 4 c
- Lucas, D. R. 2 m 153 W. 64
- Lucas, R. J. 4 s Heath ave.,  
Kingsbridge, N. Y.
- Luce, F. L. 3 c 527 W. 124
- Luce, V. C. 1 t 527 W. 124
- Ludlow, T. R. 1 l 437 2d, Bklyn.
- Luithlen, W. 3 s 709 Grand,  
Bklyn.
- Lukens, E. F. 2 c  
551 Manhattan ave.
- Lund, F. N. 2 s 4 W. 130
- Luscomb, H. T. 1 s 439 Macon,  
Bklyn.
- Lutes, M. M. 3 t  
1230 Amsterdam ave.
- Lyall, P. W. 4 b 417 W. 114
- Lynn, E. A. 1 l 141 W. 11
- Lynn, H. H. E. 2 s 162 W. 96
- Lyon, D. O. 1 m 344 W. 58
- Lyon, E. C. 3 m 328 W. 56
- Lyon, E. E. 4 t 103 Elm,  
Yonkers, N. Y.
- Lyon, R. p 453 W. 24
- Lyon, W. W., Jr. 2 s 157 W. 92
- McAneny, L. G. 1 l 310 W. 115
- McBain, H. L. pl 531 W. 124
- McBaine, R. H. 2 m 71 W. 71
- McBride, J. J. 3 l
- McCabe, E. H., Jr. sp s 129 W. 96
- McCarthy, C. A. 1 m 129 W. 61
- McCarthy, C. D. 2 s 312 7th,  
Bklyn.
- McCarthy, T. 3 c 137 W. 120
- McCary, F. F. 1 l 526 W. 123
- McChrystal, M. A. 1 c 524 W. 123
- McClain, H. G. 3 s 310 W. 115
- McClave, D. 1 s 136 W. 58
- McClement, T. B. pl 700 Park ave.
- McClure, W. C. 1 s 22 W. 49
- McCluskey, R. J. 1 m 304 W. 55
- McColl, C. A. 1 l 346 W. 15
- McCook, J. A. ph 10 W. 54
- McCormack, W. G., Jr. 3 m  
1062 E. 176
- McCoy, T. C. 4 m 112 W. 61
- McCoy, W. M. 1 m 91 Harrison,  
E. Orange, N. J.
- McCready, R. L., Jr. 2 m  
228 W. 127
- McCroskery, J. H. 4 m 4638 Hud-  
son Boulevard, Union Hill, N. J.
- McCullock, P. L. 1 c 328 Centre,  
Orange, N. J.
- McCurdy, E. S. 4 s 54 W. 35
- McDermott, J. Z. 4 m 120 W. 64
- McDermott, W. R. pl  
Madison, N. J.
- McDonald, F. P. 4 c 417 W. 117
- McDonald, J. E. W. 2 l  
417 W. 117
- McDonnell, A. J. 2 s 310 W. 70
- McDowell, P. p 447 Summer  
ave., Newark, N. J.
- McElwee, R. S. 1 c 215 W. 23
- McGahey, M. W. 4 t  
1230 Amsterdam ave.
- McGee, L. 3 l 454 Halsey, Bklyn.
- McGehee, A., Jr. 2 l 430 W. 118
- McGhee, M. 4 t  
321 St. Nicholas ave.
- McGovney, D. O. pl 527 W. 124
- McIntyre, M. 4 s  
345 West End ave.
- McKaig, J. S. 2 s 521 W. 123
- McKallogat, P. L. 3 m
- McKay, M. E. 4 t  
1230 Amsterdam ave.
- McKee, E. du B. 2 b 557 W. 124
- McKee, T. J. 1 l
- McKenna, B. C. 2 l 233 W. 70
- McKenzie, D. A. 4 c  
57 Sherman ave., Newark, N. J.
- McKinlay, C. M. 2 c Tenafly, N. J.
- McKinney, F. W. 3 s 415 W. 117
- McLane, F. M. 2 b  
111 Morningside ave.
- McLaughlin, L. ph 254 W. 136
- McLaughlin, P. 2 b 254 W. 136



McLaughlin, T. D. *f a*  
 431 W. 117  
 McLaury, C. H. *ph* 200 W. 98  
 McLean, C. S. *i m*  
 237 West End ave.  
 McLoughlin, J. B. *i l* 199 & Val-  
 entine ave.  
 McMahon, A. E. *M. 2 t*  
 306 East Broadway  
 McMorrow, C. P. *2 s* 63 E. 93  
 McMurray, C. L. *sp t*  
 1230 Amsterdam ave.  
 McNamara, E. J. *2 m* 128 W. 64  
 McNeely, E. *pl*  
 1230 Amsterdam ave.  
 McNulty, E. T. *i m*  
 441 McDonough, Bklyn.  
 McVicker, H. G. *pl* 232 E. 76  
 MacColl, G. B. *3 b* 410 W. 115  
 MacColl, J. *3 b* 470 W. 115  
 MacCutcheon, A. *i s*  
 Golden's Bridge, N. Y.  
 MacCutcheon, P. J. *i s*  
 Golden's Bridge, N. Y.  
 MacDonald, A. F. *4 m* 128 W. 64  
 MacDonald, J. J. *i l* 430 W. 118  
 McDonough, P. J. *i l* 100 Broad  
 MacEwan, E. L. *2 b*  
 131 Clifton ave., Newark, N. J.  
 MacGreevy, W. J. *i c* 201 W. 131  
 MacInness, A. *4 t* 430 W. 118  
 MacIntyre, C. B. *4 m* 146 W. 12  
 MacKallor, DeW. C. *3 s*  
 140 W. 91  
 MacLear, A. B. *pl* 457 W. 123  
 MacLeod, F. L. *pl* 700 Park ave.  
 MacMahon, E. W. *2 l*  
 57 Lafayette ave., Bklyn.  
 MacMurray, J. Van A. *2 l*  
 331 W. 76  
 MacNary, E. E. *2 t*  
 1345 Amsterdam ave.  
 Mabee, W. S. *i c* 916 Main,  
 Paterson, N. J.  
 Mabey, J. C. *4 m* 227 W. 70  
 Macbeth, R. W. *3 c* 834 Prospect  
 pl., Bklyn.  
 Macconachie, J. *sp t*  
 1230 Amsterdam ave.  
 Macdonald, A. S. *f a* 544 W. 113  
 Macdonald, C. *3 t* 127 W. 87  
 Macdonald, C. D. *3 c*  
 431 Riverside dr.  
 Macdonald, E. B. *sp b*  
 Riverside dr. and 115  
 Macdonald, M. P. *i b*  
 803 Madison ave.  
 Mackenzie, A. *4 c* 604 W. 114

Mackenzie, G. M. *i c*  
 Dobbs Ferry, N. Y.  
 Macmanus, J. *i l*  
 Grand Union Hotel  
 Macovoy, C. H. (Mrs. W. C.) *4 b*  
 336 W. 95  
 Macrae, R. M. *3 m* 129 W. 61  
 Maddock, C. L. *4 t* 439 W. 123  
 Maeder, E. L. *4 t* 304 E. 120  
 Makiejs, J. *f a* 11 W. 22  
 Malcomson, A. S. *4 s* Orange, N. J.  
 Malmbergy, T. J. W. *2 l*  
 352 Fourth ave.  
 Mandelbaum, H. D. *2 m*  
 941 Madison ave.  
 Manley, A. L. *i b* 272 W. 115  
 Manning, E. B. *f a* 505 W. 138  
 Manning, J. T. *gr t*  
 2092 Washington ave.  
 Manny, F. A. *gr t*  
 33 Central Park West  
 Manov, N. *f a* 17 W. 114  
 Mapelsden, R., Jr. *i c* 881 Union,  
 Bklyn.  
 Mapes, C. D. *2 c* 62 W. 127  
 Marble, R. N., Jr. *4 s* 354 W. 120  
 Marcus, A. *i l* 635 Sixth  
 Marcus, C. *2 c* 72 W. 91  
 Marcus, S. S. *2 l* 1516 Brook ave.  
 Marcy, F. L. *i c* 2682 Bway.  
 Margulies, A. C. *4 m* 451 51st,  
 Bklyn.  
 Markley, B. M. *i b* 109 W. 90  
 Markley, E. H. *2 b* 109 W. 90  
 Marsh, A. L. *2 t*  
 1230 Amsterdam ave.  
 Marsh, D. *3 t* 528 W. 123  
 Marsh, H. D. *ph* 117 W. 137  
 Marsh, R., Jr. *2 s* 235 W. 75  
 Marsh, T. McC. *i l* 414 W. 118  
 Marshall, A. M. *i b*  
 63 Buffalo ave., Bklyn.  
 Marshall, J. F. *gr t* 1011 Tiffany  
 Marshall, M. O. *i b* 604 W. 115  
 Marshall, R. P. *i c*  
 433 Central Park West  
 Marshall, W. R. *i s* 1011 Tiffany  
 Marsters, V. F. *p* 419 W. 118  
 Marston, J. P. *3 c* 119 W. 106  
 Marten, C. *4 t*  
 1268 Amsterdam ave.  
 Marten, W. S. *4 t*  
 1268 Amsterdam ave.  
 Martin, A. *4 t* 419 W. 118  
 Martin, G. F. *2 s*  
 1474 Washington ave.  
 Martin, H. P. *4 t*  
 1230 Amsterdam ave.

- |                             |                                      |                              |                                     |
|-----------------------------|--------------------------------------|------------------------------|-------------------------------------|
| Martin, L. A., Jr. <i>p</i> | 824 Bloomfield, Hoboken, N. J.       | Meinzer, M. S. <i>4 m</i>    | South Amboy, N. J.                  |
| Martin, M. A. <i>ph</i>     | 454 Manhattan ave.                   | Meisel, A. W. <i>2 l</i>     | 604 W. 115                          |
| Martin, M. T. <i>3 t</i>    | 1230 Amsterdam ave.                  | Mellen, A. V. <i>2 t</i>     | 3136 Bway.                          |
| Martin, N. B. <i>4 m</i>    | 465 W. 57                            | Meloney, L. F. <i>4 m</i>    | Clifton, N. J.                      |
| Martin, R. <i>4 s</i>       |                                      | Mendelson, S. <i>3 c</i>     | 1855 7th ave.                       |
| Martland, H. S. <i>4 m</i>  | 1138 Broad, Newark, N. J.            | Menke, W. <i>1 s</i>         | 155 W. 63                           |
| Martland, R. B. <i>2 c</i>  | 1138 Broad, Newark, N. J.            | Menocal, J. G. <i>2 s</i>    | 416 W. 118                          |
| Marwick, R. H. <i>3 c</i>   | 310 W. 154                           | Mercier, L. A. <i>J. ph</i>  | 418 W. 118                          |
| Mash, W. W., Jr. <i>1 s</i> | 327 E. 121                           | Merklinger, T. B. <i>2 s</i> | 156 Penna. ave., Newark, N. J.      |
| Masland, M. E. <i>ph</i>    | 607 Fifth ave.                       | Merrill, E. B. <i>sp l</i>   | 510 W. 124                          |
| Mason, F. L. <i>1 s</i>     | 631 Cortlandt ave.                   | Merrill, G. A. <i>4 m</i>    | 128 W. 112                          |
| Massee, W. W. <i>ph</i>     | 206 W. 122                           | Merriman, E. A. <i>4 t</i>   | 600 W. 125                          |
| Masterton, R. C. <i>2 c</i> | 418 W. 144                           | Merriman, M. H. <i>3 m</i>   | 8 W. 59                             |
| Mastin, F. J. <i>1 b</i>    | 415 W. 118                           | Merritt, J. H. <i>3 s</i>    | Tarrytown, N. Y.                    |
| Mastin, R. R. <i>1 c</i>    | 415 W. 118                           | Merritt, J. I. <i>3 s</i>    | 614 W. 113                          |
| Mather, I. E. <i>4 t</i>    | 535 Walnut, Elizabeth, N. J.         | Merritt, L. R. <i>4 s</i>    | 534 W. 124                          |
| Mathews, J. <i>4 t</i>      | 522 W. 123                           | Messer, W. S. <i>4 c</i>     | Jersey City                         |
| Mathews, L. E. <i>4 b</i>   | 36 Kearney, Newark, N. J.            | Mestre, H. <i>2 s</i>        | 303 W. 84                           |
| Mathewson, C. A. <i>4 t</i> | 3136 Bway.                           | Mettler, A. J. <i>4 s</i>    | 84 Henry, Bklyn.                    |
| Matthews, C. E. <i>4 s</i>  | 401 Mt. Prospect ave., Newark, N. J. | Metzenthin, W. E. <i>ph</i>  | 544 W. 113                          |
| Maves, A. E. <i>3 c</i>     | 567 W. 171                           | Meyer, A. W. <i>p</i>        | 524 W. 123                          |
| Max, T. <i>2 c</i>          | 37 East Broadway                     | Meyer, E. R. <i>pl</i>       | 175 Ninth ave.                      |
| Maxon, M. <i>1 b</i>        | 239 So. 10th ave., Mt. Vernon, N. Y. | Meyer, F. A. <i>4 b</i>      | Park Hill, Yonkers, N. Y.           |
| Maxson, A. R. <i>gr t</i>   | 150 W. 121                           | Meyer, G. A. <i>3 l</i>      | 42 W. 44                            |
| Maxwell, C. R. <i>4 t</i>   | 408 W. 124                           | Meyer, H. A. <i>4 m</i>      | 19 St. James pl., Bklyn.            |
| May, C. A. <i>fa</i>        | 464 Classon ave., Bklyn.             | Meyer, H. F. <i>2 s</i>      | 346 E. 53                           |
| May, E. R. <i>1 s</i>       | 417 Madison ave.                     | Michael, J. <i>1 l</i>       | 208 W. 129                          |
| Mayer, C. <i>1 c</i>        | 41 E. 72                             | Michael, L. G. <i>p</i>      | 426 W. 123                          |
| Mayer, F. <i>3 b</i>        | 41 E. 72                             | Michael, M. <i>1 l</i>       | 165 W. 95                           |
| Mayer, J. <i>sp m</i>       | 1526 Madison ave.                    | Michaelis, W. <i>2 l</i>     | 60 E. 93                            |
| Mayer, MacD. <i>2 s</i>     | 354 W. 120                           | Michailovsky, B. <i>1 m</i>  | 208 W. 129                          |
| Maynard, E. T. <i>3 c</i>   | 517 Manhattan ave.                   | Miles, G. F. <i>sp c</i>     | 222 W. 23                           |
| Mayo, M. J. <i>pl</i>       | 311 E. 26                            | Miller, A. B. <i>ph</i>      | 419 W. 118                          |
| Mayo-Smith, L. <i>2 b</i>   | 305 W. 77                            | Miller, B. M. <i>4 t</i>     | 3135 Broadway                       |
| Meacham, E. <i>3 t</i>      | 232 W. 120                           | Miller, C. D. <i>3 l</i>     | 26 W. 37                            |
| Mead, C. S. <i>p</i>        | 538 W. 126                           | Miller, C. E. <i>2 c</i>     | 621 Bramhall ave., Jersey City      |
| Mead, H. L. <i>4 s</i>      | 429 W. 117                           | Miller, E. <i>3 t</i>        | 3135 Broadway                       |
| Mead, N. P. <i>pl</i>       | 174 and Jerome ave.                  | Miller, E. C. <i>4 c</i>     |                                     |
| Mead, R. H. <i>2 s</i>      | 190 N. 6, Newark, N. J.              | Miller, F. L. <i>2 l</i>     | 206 W. 106                          |
| Meade, R. P. <i>2 t</i>     | 126 E. 19                            | Miller, G. E. <i>2 m</i>     |                                     |
| Mears, W. H. <i>pl</i>      | 175 Ninth ave.                       | Miller, J. <i>2 s</i>        | 415 W. 117                          |
| Medalie, G. Z. <i>4 c</i>   | 20 E. 132                            | Miller, L. <i>2 m</i>        | 15 Suffolk                          |
| Meeker, M. M. <i>3 t</i>    | 307 Lenox ave.                       | Miller, L. A. <i>p</i>       | 78 N. Broadway, White Plains, N. Y. |
|                             |                                      | Miller, M. <i>ph</i>         | 63 Gates ave., Bklyn.               |
|                             |                                      | Miller, M. A. <i>1 b</i>     | 314 W. 104                          |
|                             |                                      | Miller, M. H. <i>1 l</i>     | 541 W. 124                          |
|                             |                                      | Miller, R. M. <i>2 c</i>     |                                     |
|                             |                                      |                              | 591 West End ave.                   |
|                             |                                      | Miller, W. D. <i>4 t</i>     | 67 W. 108                           |

- Miller, W. T. 1 s 604 W. 144  
 Millett, K. B. 2 s 250 W. 88  
 Mills, J. S. p 155 W. 65  
 Mills, R. V. A. 2 s 607 W. 115  
 Mills, W. M. 2 m 157 W. 64  
 Mills, W. S. sp c 324 W. 89  
 Millward, J. B. 2 s 92 Morningside ave.  
 Miltenberger, G., Jr. 4 s 438 W. 116  
 Miningham, W. D. 3 m 113 Sussex, Jersey City  
 Mishkin, V. 1 s 79 Clinton  
 Mitchell, C. von E. 2 c 24 W. 10  
 Mitchell, J. P. ph 419 W. 118  
 Mitchell, W. S. 3 s 24 W. 10  
 Mitty, J. J. pl 444 W. 26  
 Mixsell, R. B. 2 m 72 E. 34  
 Mockridge, O. A. 3 m  
 Mockridge, R. W. sp c Carnegie Hall  
 Moeckel, C. R. 2 m 153 W. 64  
 Moegling, B. A. 3 s College Point, N. Y.  
 Moeller, P. ph 6 W. 75  
 Mogulesko, J. L. 4 m 125 E. 101  
 Moir, W. M. 3 t 1230 Amsterdam ave.  
 Molwitz, E. ph 306 E. 165  
 Monks, W. D. 2 s 351 South 3d  
 ave., Mt. Vernon, N. Y.  
 Monroe, O. L. 1 m 329 W. 58  
 Montgomery, A. P. 1 c Flushing, N. Y.  
 Montgomery, N. W. sp b 607 W. 115  
 Monty, A. H. 3 m 927 Park ave.  
 Mooney, H. R. 1 m 243 W. 127  
 Moore, E. L. ph 343 St. Nicholas ave.  
 Moore, E. M. 4 t 1230 Amsterdam ave.  
 Moore, F. P. ph 343 St. Nicholas ave.  
 Moore, G. D. 1 t 1268 Amsterdam ave.  
 Moore, G. G., Jr. 3 c 833 Madison ave.  
 Moore, H. N. 2 t 454 Manhattan ave.  
 Moore, J. H. ph 8 W. 119  
 Moore, J. M. 3 l 305 W. 112  
 Moore, N. L. sp b 40 W. 127  
 Moore, P. A. 1 l 526 W. 123  
 Moore, R. C. B. 2 c Chatham, N. J.  
 Moore, S. H. pl 530 W. 123  
 Moore, S. La M., Jr. 1 s 608 W. 113  
 Mora, E. J. 2 s 206 W. 106  
 More, D. H. 2 m 153 W. 64  
 Moretsky, H. M. 3 m 486 Hudson  
 Morgan, C. E. ph 1173 Bushwick ave., Bklyn.  
 Morgenthau, F. J. sp b 155 W. 77  
 Mori, V. W. 2 c 234 E. 5  
 Moritz, B. 1 b 1230 Amsterdam ave.  
 Morrall, C. F. 3 c 534 W. 124  
 Morrey, W. T. pl 535 W. 111  
 Morrill, C. V., Jr. p 69 W. 130  
 Morris, A. B. 3 s 190 W. 100  
 Morris, D. A. sp s 370 W. 118  
 Morris, D. H. 4 c 161 W. 87  
 Morris, J. B., Jr. f a 204 W. 94  
 Morris, M. 3 t 1230 Amsterdam ave.  
 Morrison, C. E. p 139 W. 121  
 Morrison, G. L. sp t 524 W. 123  
 Morrow, W. C. 2 l 529 W. 124  
 Morse, L. B. pl 17 Lexington ave.  
 Morse, M. p 600 W. 125  
 Morse, M. 1 t 541 Lexington ave.  
 Morss, L. M. pl 321 W. 118  
 Morton, C. E. 3 m 238 W. 56  
 Moses, A. 2 s 1042 1st ave.  
 Moses, J. gr t 100 Seventh  
 Moses, J. G. 3 l 430 W. 118  
 Moss, S. D. 1 l 205 E. 62  
 Mott, I. 4 b 221 W. 123  
 Mott, K. 1 s 309 Nelson ave.,  
 Peekskill, N. Y.  
 Mott, W. W. 4 c 541 W. 124  
 Mount, R. T. 2 l 138 W. 64  
 Mount, W. B. 4 m 138 W. 64  
 Muir, D. D., Jr. 1 s 608 W. 113  
 Mullen, C. R. sp s 902 West End ave.  
 Muller, A. H. 1 b 203 W. 122  
 Müller, J. f a 103 Oak, Bklyn.  
 Müller, L. K. 1 b 2040 7th ave.  
 Munker, M. J. 2 m 1 W. 92  
 Munroe, E. L. 4 b 262 W. 122  
 Munroe, O. L. 1 m 329 W. 58  
 Munson, D. G. ph 195 Hopkinson ave., Bklyn.  
 Murdoch, A. M. 3 t 242 W. 58  
 Murn, C. J. 2 m 16 Green, Paterson, N. J.  
 Murphy, E. N. 4 t 11 Wood pl., Yonkers, N. Y.  
 Murphy, H. C., Jr. 1 s 390 Union, Bklyn





O'Neil, L. F. D. 2 s 526 W. 123  
Opdycke, J. B. gr t

18 Sidney pl., Bklyn.

Oppenheimer, E. D. 2 m 56 E. 66

Oppenheimer, F. G. 3 m

Orlando, V. J. 4 m 20 W. 71

O'Rourke, M. 1 b 337 E. 106

31 Lake,

White Plains, N. Y.

Osborne, E. F. pl 245 W. 104

Osburn, R. C. p 510 W. 124

O'Shea, A. L. 2 l 200 W. 70

Osnato, M. 3 m 330 E. 13

Osterhout, W. B. 1 c

Freeport, N. Y.

Otis, A. H. 1 c 2 E. 119

Otis, W. B. ph 507 W. 112

Ott, C. A. 3 s 1972 Third ave.

Otten, F. L. 4 c 250 W. 88

Ottenberg, R. 4 m 141 W. 123

Otto, W. G. C. 1 l 929 Bloom-

field, Hoboken, N. J.

Overbeek, J. B. 2 s 530 W. 123

Owen, F. T. p 140 W. 116

Owen, G. 4 t 1230 Amsterdam ave.

Owen, K. B. 3 t

1230 Amsterdam ave.

Owen, M. 4 t 1230 Amsterdam ave.

Owen, M. S. 2 m 161 W. 64

Owen, W. R., Jr. 2 s 508 W. 112

Pack, F. J. p

1293 Amsterdam ave.

Paddock, J. 3 b 141 W. 70

Paganini, P. S. 3 s 280 Fourth,

Jersey City

Page, R. B. pl 135 W. 89

Palliser, G. A. 2 s

1397 Ocean ave., Bklyn.

Palliser, H. L. 4 b

1397 Ocean ave., Bklyn.

Palmblad, H. V. E. 1 c

711 Lafayette ave., Bklyn.

Palmer, A. P. 3 s 414 W. 118

Palmer, F. L. W. sp c

310 W. 115

Palmer, H. 1 c 344 W. 84

Palmer, W. G. 2 c

320 Manhattan ave.

Panaroni, A. G. ph 343 W. 43

Pardee, H. E. B. 3 c 74 W. 48

Park, E. A. 4 m

Parker, A. 3 l

24 Pierpont, Bklyn.

Parker, L. A. 4 m 112 W. 61

Parker, R. L. ph

6701 Second ave., Bklyn.

Parker, W. D. 2 l

54 Morningside ave.

Parks, J. L., Jr. 2 c 103 E. 21

Parraga, F. U. 1 c 1038 Fifth ave.

Parsons, F. A. 4 t

492 Manhattan ave.

Parsons, P. A. pl

Plainfield, N. J.

Parsons, S. E. sp t

1230 Amsterdam ave.

Partridge, G. W. 2 m 46 W. 65

Pasternak, N. p 91 Second ave.

Patch, H. E. ph

Bretton Hall,

Broadway and 86

Paul, F. H. J. gr t 348 W. 56

Paul, H. G. ph 416 W. 118

Payne, F. O. p 155 W. 65

Payson, H. 4 s 627 W. 115

Peacock, W. T. 2 s

384 Madison, Bklyn.

Pearce, H. A. pl 700 Park ave.

Pearse, C. A. 1 s 139 W. 121

Pease, M. C., Jr. 3 m 46 W. 83

Peck, F. M. 1 b 511 W. 112

Peck, H. M. f a 49 W. 44

Peck, J. A., Jr. 1 s

Pelham Manor, N. Y.

Peckham, R. 3 l 505 W. 124

Pegram, A. M. p

1230 Amsterdam ave.

Peiser, D. W. 2 c 52 E. 80

Pelton, E. C. 4 t 457 W. 123

Pendleton, V. 2 t

1230 Amsterdam ave.

Percival, H. S. ph 175 Ninth ave.

Percy, S. W. 2 t 249 W. 109

Perkins, I. C. 4 c

351 St. Nicholas ave.

Perkins, U. S. G. ph 131 W. 104

Perrin, E. B., Jr. 1 l

Perrine, H. 2 c

820 West End ave.

Perry, A. C. F. 2 s

Fordham Heights, N. Y.

Perry, H. C. 1 b

440 West End ave.

Perry, R. M. 3 c 354 W. 120

Pershing, C. L. 1 m

Peshkin, H. C. 1 s 128 Chrystie

Peter, G. W. 3 c 825 E. 161

Peters, L. E. ph Englewood, N. J.

Peterson, M. L. 1 b

935 College ave.

Pettit, R. W. 4 m

Peyser, E. R. 3 t 64 W. 91

Phelps, G. M. 3 m

Phetteplace, T. M. p 415 W. 117

Phillips, C. 3 m 6 W. 117

- Phillips, M.* 3 *t*  
 1230 Amsterdam ave.  
*Phillips, W.* 2 *m* 117 W. 63  
*Philp, M. I.* *ph* 48 W. 94  
*Piel, W. F. J.* 4 *c* 245 W. 72  
*Pierce, H. W.* 3 *l* 416 W. 118  
*Pierce, W. L. S.* 4 *s* 85 and Bway.  
*Pierrepont, R. S.* 4 *c* 116 and Riverside dr.  
*Pierrepont, S. L.* 2 *c* 216 Columbia Heights, Bklyn.  
*Pierson, C. M.* 3 *t* 439 W. 123  
*Pierson, H. gr t* Oradell, N. J.  
*Pigott, R. J. S.* 3 *s* 212 W. 102  
*Pincus, E.* 3 *l* 101 W. 126  
*Pinks, J. L.* 2 *l* 233 W. 122  
*Pitner, P. J.* 4 *s* 419 W. 118  
*Pitou, E., Jr.* 3 *s* 301 W. 84  
*Pitske, E. D.* 3 *l* 365 W. 110  
*Pitt, G. f a* New Rochelle, N. Y.  
*Plate, H. H.* 3 *b* 453 W. 123  
*Pocock, C.* 3 *s* 430 W. 118  
*Podell, D. L.* 4 *c* 90 2d ave.  
*Points, J. S.* 2 *b* 40 Vroom,  
 Jersey City  
*Polishook, S. N.* 3 *s* 131 E. 114  
*Poll, D.* 1 *c* 257 Columbia, Bklyn.  
*Pollak, L. L.* 4 *s* 60 W. 119  
*Pollitzer, M. L.* 3 *t* 234 Central Park West  
*Pool, E. M.* *ph* 829 West End ave.  
*Poots, A.* 4 *t* 524 W. 123  
*Popcke, A. G.* 3 *s* 951 Morris ave.  
*Porter, A. K.* *f a* Stamford, Conn.  
*Porter, C. H., Jr.* 1 *m*  
*Porter, E. E.* 1 *c* 50 W. 33  
*Porter, E. L.* 2 *b* 439 Manhattan ave.  
*Porter, J. C.* 4 *s* 366 Madison, Bklyn.  
*Porter, J. Y., Jr.* 3 *m* 240 W. 102  
*Porter, W. R.* 3 *c* 50 W. 33  
*Post, C. M.* 3 *b* Woodside, N. Y.  
*Post, E. S.* 3 *b* Woodside, N. Y.  
*Post, H. B.* 1 *s* 140 W. 77  
*Potter, A.* *sp c* New Rochelle, N. Y.  
*Potter, L. V. H.* *ph* 112 W. 129  
*Powell, F. J.* 4 *s* 331 E. 17  
*Powell, J. A.* *sp l* 2 E. 107  
*Powell, L. L.* 3 *t* 605 W. 115  
*Powers, J. B.* 2 *m* 143 W. 63  
*Powers, M. T.* 4 *m* 465 W. 57  
*Pozdena, O. R.* 4 *m* 360 E. 72  
*Prager, R.* *f a* 129 E. 74  
*Prahl, J.* 1 *b* 455 W. 143  
*Prall, J. G.* 2 *s* 419 W. 117  
*Prather, J. K.* *p* 418 W. 118  
*Pratt, C. H.* 3 *m* 95 High,  
 Passaic, N. J.  
*Pratt, J. S.* 2 *b* 65 Lockwood ave.,  
 New Rochelle, N. Y.  
*Prensky, J. M.* 3 *l* 68 W. 113  
*Prentice, I. W.* 3 *t* 550 W. 148  
*Prentis, E. A., Jr.* 3 *s* 408 W. 23  
*Prentiss, R. N.* 4 *m* 117 W. 64  
*Prescott, C. I.* 4 *m* 155 W. 64  
*Preston, F. C.* *sp c* Waldorf-Astoria Hotel  
*Price, C. R.* 2 *c* 530 W. 123  
*Pride, G. H.* 2 *s* 726 E. 142  
*Prince, J. F.* 1 *c* 188 St. Nicholas ave.  
*Pritchard, W. H.* 3 *l* 416 W. 118  
*Proctor, D. M.* 3 *l* 519 W. 123  
*Proctor, R. H.* 4 *t* 533 W. 124  
*Pugh, L. M.* 3 *t* 72 and Riverside dr.  
*Pumyea, P. C.* 4 *m* 138 W. 65  
*Purdon, F. H.* 4 *b* 606 W. 114  
*Purdue, O. C.* 2 *b* East Orange, N. J.  
*Purdy, A. L.* 2 *s* 415 W. 117  
*Putnam, W.* 3 *s* 310 W. 115  
*Pyle, W. R.* *p* Bedford Park, N. Y.  
*Quackenbos, G. P.* *ph* 331 W. 28  
*Quackenbush, L. S.* *p* 142 W. 57  
*Queck-Bevner, Mrs. C. L.* *f a* 345 Lafayette ave., Bklyn.  
*Quezada, C. T.* 1 *s* 365 Manhattan ave.  
*Quinby, E. M.* 1 *b* 13 Davis ave.,  
 White Plains, N. Y.  
*Quinby, M. G.* 1 *b* 66 W. 107  
*Quinn, C. M.* 4 *m* 160 E. 47  
*Quinn, J. A.* *p* Ipswich, N. Y.  
*Quinn, M. K.* 1 *b* 138 W. 111  
*Raabe, A.* 3 *m* 630 Courtland ave.  
*Rabinowitz, E. N.* *ph* 531 W. 123  
*Radgik, B.* 4 *m* 20 E. 111  
*Radin, P.* *pl* 844 Teasdale pl.  
*Rae, A. M.* 2 *b* 453 W. 123  
*Ragsdale, W. W.* 2 *l* 142 W. 103  
*Rainsford, L.* 1 *m* 209 E. 16  
*Rall, E. E.* *gr t* 541 W. 124  
*Ralph, V.* 3 *b* 2881 Broadway  
*Ralston, H.* 3 *t* 3135 Broadway

Ramsdell, C. W. *pl* 500 W. 123  
 Ramsdell, E. G. *i m* 76 Convent ave.  
 Randolph, F. C. F. *2 c* 206 W. 96  
 Randolph, H. S. F. *sp c* 1730 Broadway  
 Ransom, W. G. *p* 360 W. 121  
 Raphael, A. *2 c* 1038 5th ave.  
 Raphael, A. P. *1 b* 1038 5th ave.  
 Rapp, K. L. *2 b* 379 Washington ave., Bklyn.  
 Rathgen, M. L. *1 b* New Rochelle, N. Y.  
 Rattner, C. G. *2 m* 79 East Bway.  
 Rauh, I. *pl* 54 E. 73  
 Rauh, F. E. *pl* 54 E. 73  
 Rawls, P. S. *2 m* 31 W. 65  
 Ray, D. H. *f a* 555 W. 182  
 Ray, E. T. *3 m* 555 W. 182  
 Ray, F. M. *p* 118 W. 126  
 Ray, I. C. *2 b* 555 W. 182  
 Raynolds, P. S. *4 t* 1230 Amsterdam ave.  
 Read, J. P. *3 s* 501 W. 120  
 Read, T. T. *p*  
 Reaney, E. J. *3 b* 133 W. 92  
 Reaney, G. H. *2 c* 133 W. 92  
 Reardon, M. C. R. *2 b* Rye, N. Y.  
 Reber, J. *ph* 2126 Mapes ave.  
 Reed, D. B. *1 m* 332 Lenox ave.  
 Reed, J. H., Jr. *p*  
 Reed, L. R. *1 s* 147 E. 61  
 Reeder, I. M. *3 t* Hastings-on-Hudson, N. Y.  
 Reeder, R. A. *4 b* Hastings-on-Hudson, N. Y.  
 Rees, C. R. *ph* 1230 Amsterdam ave.  
 Regensburger, I. P. *1 c* 886 Park ave.  
 Reges, C. H. *2 c* 298 Grand ave., Astoria, L. I.  
 Reid, J. W. *3 t* 534 W. 124  
 Reigart, J. F. *gr t* 31 Euclid ave., Yonkers, N. Y.  
 Reiley, A. C. *4 b* North Tarrytown, N. Y.  
 Reiley, K. C. *ph* North Tarrytown, N. Y.  
 Reilly, K. A. *3 t* 55 W. 47  
 Reiman, L. C. *2 b* Bway. and 77  
 Reitlinger, B. H. *4 b* 66 W. 68  
 Reizenstein, C. L. *1 s* 1340 Madison ave.  
 Rejall, A. E. *3 c* 54 Tompkins pl., Bklyn.  
 Renner, F. A. *2 s* 1509 Bryant

Rennert, R. J. *p* 98 E. 114  
 Renshaw, R. R. *p* 520 W. 133  
 Reppenhagen, L. *4 t* Gilbert House, Ossining, N. Y.  
 Requa, A. *1 b* 536 W. 142  
 Reuben, M. *3 m* 24 W. 112  
 Reynolds, G. P. *p* 9 W. 91  
 Reynolds, H. S. *3 l* 26 W. 36  
 Reynolds, I. A. *gr t* 2041 Washington ave.  
 Rhame, J. F. *2 s* 534 W. 124  
 Riblet, M. V. *ph* 343 E. 68  
 Riblet, R. F. *4 c* 343 E. 68  
 Rice, F. W. *3 m* 314 W. 56  
 Rice, J. B. *sp b* 1230 Amsterdam ave.  
 Rich, J. P. *4 t* 237 W. 111  
 Rich, M. E. W. *3 b* 23 E. 2. Mt. Vernon, N. Y.  
 Richards, F. S. *4 t* 1230 Amsterdam ave.  
 Richards, G. M. *3 s* 75 W. 46  
 Richardson, R. *1 m* 125 South Oxford, Bklyn.  
 Richter, R. M. *3 c* 843 E. 164  
 Richter, S. L. *2 c* 68 E. 79  
 Richter, T. B. *2 l* 68 E. 79  
 Ricketts, H. E. *4 m* 328 W. 56  
 Ridder, J. E. *3 s* 447 E. 84  
 Riddle, G. W. *sp s* 627 W. 115  
 Riegel, H. *1 c* 648 E. 11  
 Riggs, F. B. *sp s* 418 W. 118  
 Riggs, L., Jr. *2 l* 46 E. 29  
 Riley, N. S. *1 l* Care of Studebaker Bros., Bway. and 48  
 Rindge, F. H., Jr. *1 c* 78 Manhattan ave.  
 Ring, A. E. *4 s* Sheridan ave. and 159  
 Rionda, E. *1 b* 464 W. 145  
 Rising, H. R. *1 l* 37 South 10, Newark, N. J.  
 Ritter, A. E. B. *ph* 466 E. 25, Bklyn.  
 Robbins, R. H. *1 l* 180 W. 59  
 Robert, C. S. *2 s* 414 W. 118  
 Roberts, J. T., Jr. *2 s* 517 Manhattan ave.  
 Roberts, W. H. *1 m* 350 W. 55  
 Robinson, B. *1 s* University Heights  
 Robinson, C. B. *p* N. Y. Botanical Garden, Bronx Park  
 Robinson, J. L. *2 l* 519 W. 123  
 Robinson, J. P. *4 c* 178 Main, Orange, N. J.  
 Robinson, R. *ph* 31 Montgomery

- Robinson, T. G. 1 m 209 W. 118  
 Robinson, W. B. 1 c 420 W. 117  
 Rochester, T. W. 4 s  
     845 Lexington ave.  
 Rockey, P. 1 m 143 W. 61  
 Rockmore, A. 1 t 280 Henry  
 Rockwood, J. P. 1 s 8 Inwood  
     pl., Upper Montclair, N. J.  
 Roden, B. F., Jr. 3 s 418 W. 118  
 Roe, F. W. ph 501 W. 120  
 Roe, O. L. 1 b 122 W. 136  
 Roeth, N. S. gr t  
     1230 Amsterdam ave.  
 Rogers, C. A. 1 t  
     86 Builer, Bklyn.  
 Rogers, M. A. 4 t  
     1230 Amsterdam ave.  
 Rogers, R. B. 4 s 250 W. 94  
 Rogers, S. E. 3 l 162 E. 78  
 Rohlf, O. D. 4 s 415 W. 117  
 Rohr, M. D. 3 b Ave. B. and 15,  
     Westchester, N. Y.  
 Rolker, C. M., Jr. 1 c  
     127 Riverside dr.  
 Rolle, Sidney 4 s 145 W. 111  
 Rollinson, E. H. 4 t  
     122 Bryant, Rahway, N. J.  
 Romagna, A. J. 1 c  
     125 Cauldwell ave.  
 Roman, J. J. 1 m 49 W. 45  
 Romano, S. C. 4 m 2081 2d ave.  
 Roome, C. T. 1 m 332 Lenox ave.  
 Roome, W. H. ph  
     71 Central Park West  
 Roop, M. J. gr t Ridgefield, N. J.  
 Roosevelt, F. D. 1 l  
     200 Madison ave.  
 Rosanoff, L. 1 b 1 W. 115  
 Rose, W. J. 1 c 105 E. 71  
 Rosemon, E. M. 2 b  
     1230 Amsterdam ave.  
 Rosenbaum, E. J. 1 c 30 W. 96  
 Rosenbeck, C. 4 m 855 E. 139  
 Rosenberg, A. 4 m 617 Sixth  
 Rosenblatt, B. A. 1 c  
     1723 Madison ave.  
 Rosenheim, G. B. 1 l 430 W. 118  
 Rosenson, H. J. 4 c  
     63 Morton, Bklyn.  
 Rosenstein, H. 4 m 296 E. 3  
 Rosenthal, J. 3 m 145 2d ave.  
 Rosenthal, L. A. 3 c  
     1111 Madison ave.  
 Ross, C. A. 3 m 339 W. 55  
 Ross, O. R. ph 419 W. 118  
 Rossano, A. T. 3 m 451 E. 114  
 Roth, A. E. 1 t  
     1230 Amsterdam ave.  
 Roth, H. C. M. 4 t  
     1230 Amsterdam ave.  
 Roth, L. E. 3 t 701 St. Nicholas ave.  
 Rothberg, J. B. 1 s  
     770 Grand, Bklyn.  
 Rothenberg, A. 1 b  
     1230 Amsterdam ave.  
 Rothschild, M. A. 1 c 414 W. 118  
 Rothschild, W. L. 4 c  
     81 and West End ave.  
 Rouse, E. C. 1 c  
     East Orange, N. J.  
 Rowe, H. M. 3 l  
 Royce, S. G. ph 64 W. 127  
 Rubens, C. 4 t 138 and  
     Amsterdam ave.  
 Rubin, I. 4 m 146 E. 81  
 Ruggles, V. D. ph 175 9th ave.  
 Ruhe, A. 3 s 216 W. 102  
 Ruhl, H. L. 2 m 842 E. 164  
 Rupp, F. L. 2 s 359 W. 34  
 Ruppersberg, E. A. p 554 W. 125  
 Rusk, E. 2 b 636 Columbus ave.  
 Russak, L. B. 3 t  
     88 Edgecombe ave.  
 Russell, E. L. 4 t  
     1230 Amsterdam ave.  
 Russell, G. E. 1 t 500 W. 121  
 Russell, I. K. 3 b  
     119 Pacific, Bklyn.  
 Rutledge, W. C. 1 m 161 W. 64  
 Ryan, R. R. 4 m 318 W. 57  
 Ryan, S. E. 4 m  
 Ryttenberg, C. 3 m 165 W. 64  
 Saam, C. E. 4 t  
     1230 Amsterdam ave.  
 Sacon, Y. S. S. ph 11 Dodworth,  
     Bklyn.  
 Safier, I. f a  
     70 Howard, Newark, N. J.  
 Sage, W. M. 3 s 627 W. 115  
 Sailer, T. H. P. gr t 156 Fifth ave.  
 Saito, D. p 605 W. 115  
 Sakolski, A. M. pl 184 Eldridge  
 Sales, G. G. 1 c 266 W. 121  
 Salik, A. 3 b 65 E. 100  
 Salley, E. M. 3 l  
     201 Eighth, Jersey City  
 Saloat, W. sp s 36 W. 114  
 Sammet, F. 1 b 158 W. 120  
 Sammis, J. F. 3 m 507 W. 111  
 Samuels, A. B. 1 c 57 E. 105  
 Sanborn, O. C. 3 l 305 W. 112  
 Sanders, G. 4 m  
     482 Central Park West  
 Sanford, L. K. (Mrs. R.) 3 t  
     600 W. 125



- Sapir, E. *ph* 9 St. Nicholas ave.  
 Saqui, E. 3 *s* 2026 7th ave.  
 Satterwhite, B. O. *ph*  
 Saunders, L. G. 4 *c* 51 Park ave.,  
 Yonkers, N. Y.  
*Savitz, L. B.* 1 *b* Westfield, N. J.  
 Sawyer, A. E. 1 *l* 111 W. 82  
 Saxe, B. D. *ph* 17 Lexington ave.  
 Saxton, M. *ph* Edgewater, N. J.  
 Sayle, H. R. 1 *m*  
 138 Manhattan ave.  
 Sayre, L. A. 2 *l* 262 W. 70  
 Sayre, M. F. 2 *s* 430 W. 118  
 Schachtel, E. 2 *b* 143 W. 16  
 Schaefer, E. P. 4 *m* 444 So. 7th,  
 Newark, N. J.  
 Schaefer, L. *sp s* 528 W. 123  
 Schaeffer, S. 1 *m*  
 Schapiro, J. 4 *m* 130 Rivington  
 Schapiro, J. S. *pl* 300 Madison  
 Scharf, W. W. 3 *c* 109 Macon,  
 Bklyn.  
 Scharps, C. E. T. 4 *c* 230 W. 97  
 Schayer, M. 4 *m* 52 E. 120  
 Schenck, M. 1 *l* 500 W. 123  
 Schermerhorn, J. E., Jr. 2 *c*  
 25 E. 79  
 Schey, J. S. 3 *l* 430 W. 118  
 Schiffman, S. 3 *c* 90 Sheriff  
 Schiller, A. N. 2 *m* 151 Park Row  
 Schlachter, C. E. J. 4 *c*  
 503 Manhattan ave.  
 Schlageter, F. 3 *b* 9 Pennington  
 Paterson, N. J.  
 Schlesinger, E. J. 1 *c* 306 W. 99  
 Schley, R. 2 *l* 17 W. 52  
 Schlosberg, S. *ph* 313 E. 74  
 Schloss, B. *ph* 133 W. 117  
 Schloss, N. P. S. 1 *l*  
 100 St. Nicholas ave.  
 Schmidt, C. H. 3 *b* 31 N. Bleeker,  
 Mt. Vernon, N. Y.  
 Schmitt, F. W. 3 *s* 526 W. 123  
 Schneider, G. B. *fa* 145 High,  
 Perth Amboy, N. J.  
 Schneider, J. 2 *c* 504 Main,  
 Orange, N. J.  
 Schnirel, H. F. 3 *c* 520 W. 123  
 Schodts, L. M. *sp b* 133 E. 73  
 Schoefer, L. J. 2 *s*  
 203 St. Ann's ave.  
 Schoenborn, W. R. 4 *s*  
 329 Main, Hackensack, N. J.  
 Schomberg, P. *sp c* 526 W. 123  
 Schonberg, M. 1 *c* 150 Spring  
 Schoonmaker, R. B. 2 *s*  
 415 W. 117  
 Schramm, E. B. 2 *b* 510 W. 124  
 Schreiber, W. 1 *c* 140 Lewis  
 Schroeder, R. 2 *l* 1045 Bloomfield,  
 Hoboken, N. J.  
 Schuldenfrei, L. 3 *l* 266 W. 121  
 Schulman, M. 4 *m* 63 E. 118  
 Schulman, R. 3 *m*  
 237 Rutledge, Bklyn.  
 Schultz, N. 4 *b* 127 W. 85  
 Schultz, O. T. *p* 519 W. 123  
 Schultz, R. S., Jr. 3 *s* 413 W. 117  
 Schulze, H. L. *ph*  
 55 Cornell ave., Yonkers, N. Y.  
 Schumer, H. 3 *m* 21 E. 99  
 Schuster, E. 3 *l* 68 W. 116  
 Schuyler, E. *p* 156 Halsey,  
 Bklyn.  
 Schuyler, R. L. *pl* 1025 Park ave.  
 Schwab, F. C. 3 *l* 429 W. 117  
 Schwab, R. 3 *l* 430 W. 118  
 Schwaneflugel, C. A. 3 *s*  
 898 Steinway ave., L. I. C.  
 Schwartz, D. B. 4 *m*  
 92 So. Oxford, Bklyn.  
 Schwartz, F. 1 *l* 163 Ludlow  
 Schwartz, J. L. *ph* 531 W. 123  
 Schwartz, L. H. 2 *m* 122 E. 98  
 Schwartz, M. E. 4 *m* 47 Pike  
 Schwartz, P. 3 *m* 310 Second  
 Schwarz, R. J. 3 *l* 34 W. 113  
 Schwarz, S. A. 4 *s* 242 E. 50  
 Schwarz, W. M. 2 *c* 312 W. 99  
 Schwarzkopf, W. 3 *s* 68 E. 120  
 Schwed, H. 4 *c* 519 W. 123  
 Schwegler, F. H. 2 *l* 231 W. 137  
 Schwegler, G. 2 *s* 293 Lenox ave.  
 Scott, A. C. 3 *s* Westchester, N. Y.  
 Scott, B. T. 4 *b*  
 1230 Amsterdam ave.  
 Scott, C. A. *p* 507 W. 112  
 Scott, E. 3 *c* 41 Elmhurst ave.,  
 Elmhurst, L. I.  
 Scott, F. H. *fa* 354 W. 120  
 Scott, G. G. *p*  
 1649 Amsterdam ave.  
 Scott, I. *gr t*  
 1230 Amsterdam ave.  
 Scott, T. K. 1 *s*  
 221 Temple, L. I. C.  
 Scruton, W. A. 3 *m* 46 Market  
 Scully, J. *pl* Dunwoodie, N. Y.  
 Sears, H. C. 3 *m* 318 W. 57  
 Seaton, G. M. 4 *t* 846 Boulevard,  
 Astoria, L. I.  
 Sedgwick, A. E. 3 *s* 416 W. 118  
 See, E. T. *fa* 481 Manhattan ave.  
 Seelig, A. E. 2 *s*  
 608 Lexington ave.  
 Seeligman, I. S. 3 *b* 231 W. 129

- Seely, C. E. 1 b 153 W. 140  
 Seifert, H. F. 3 s 255 Hancock ave., Jersey City  
 Selig, S. 3 c 54 Morningside ave.  
 Seligmann, A. W. 1 c 123 W. 77  
 Seligmann, F. I. sp b 123 W. 77  
 Selvage, C. E. 3 m 117 W. 64  
 Seme, P. I. 3 c 83 W. 134  
 Seniza, F. C. p 136 Boulevard, Hoboken, N. J.  
 Sercomb, M. G. 4 b 118 W. 129  
 Serher, B. 1 s  
 Serota, H. M. 4 m  
 Severson, I. W. 3 m 314 W. 56  
 Seward, E. K. 4 t 849 St. Nicholas ave.  
 Seward, F. A. 1 t 849 St. Nicholas ave.  
 Seymour, A. D., Jr. 3 s 280 McDonough, Bklyn.  
 Seymour, A. T. p 80 Day, Orange, N. J.  
 Seymour, H. F. sp s 608 W. 113  
 Seymour, J. C., Jr. 4 c 622 W. 147  
 Shaine, M. S. 3 m 8 E. 131  
 Shainwald, R. L., Jr. p 667 Madison ave.  
 Shamel, C. H. p 526 W. 123  
 Shank, E. W. 2 m  
 Shanley, M. E. 3 b 632 W. 148  
 Shapinsky, A. T. 1 c 851 Cauldwell ave.  
 Shapiro, A. I. 4 m  
 Shapiro, D. I. 1 l 16 W. 115  
 Shapiro, R. 2 c  
 Shaw, E. 1 b 230 So. 10th ave., Mt. Vernon, N. Y.  
 Shea, W. A. 3 m 141 W. 64  
 Shearer, E. E. ph 117 E. 54  
 Sheib, L. W. Mrs., 4 t 1230 Amsterdam ave.  
 Shelander, A. R. ph 522 W. 123  
 Shelton, C. B. 1 l 229 W. 122  
 Shenstone, N. S. 4 m 138 W. 64  
 Shepard, C. N. ph 9 Chelsea Sq.  
 Sherman, L. F. ph 935 Paulding, Peekskill, N. Y.  
 Sherron, G. A. sp s 551 Manhattan ave.  
 Sherwood, W. D. 3 m 2973 Decatur ave.  
 Shibutani, N. pl 17 Concord, Bklyn.  
 Shield, W. B. pl 510 Manhattan ave.  
 Shields, H. 4 s 304 W. 115  
 Shinn, N. I. 3 b Pelham Manor, N. Y.  
 Shoninger, H. 2 b 27 W. 89  
 Shoninger, S. 3 t 1230 Amsterdam ave.  
 Shoninger, Y. 3 t 1230 Amsterdam ave.  
 Shorey, C. E. 1 l 531 W. 124  
 Short, H. B., Jr. 2 l 421 W. 117  
 Shuart, H. A. 3 l Ramsey, N. J.  
 Shuntag, B. L. 1 l 95 Chrystie  
 Shurtz, H. F. 1 l 76 and East River  
 Sibbel, A. J. 1 m 1749 Topping ave.  
 Siceloff, L. P. p 280 W. 115  
 Sichel, W. 3 c 122 W. 121  
 Sigerson, E. B. 2 s 94 E. 114  
 Sigmund, B. J. 3 s 168 Second  
 Silberstein, N. 3 c 107 E. 109  
 Silleck, W. M. 1 m 19 W. 122  
 Silliman, F. E. 3 t 2002 Fifth ave.  
 Silner, L. P. p 604 W. 115  
 Silverman, H. L. 4 s 541 W. 124  
 Silverman, S. T. 3 m 289 E. 3  
 Simkin, R. L. pl 700 Park ave.  
 Simmons, M. P. 2 t 46 Park ave., Yonkers, N. Y.  
 Simonds, W. B., Jr. 4 c 207 W. 79  
 Simons, L. G. 4 t 180 W. 88  
 Simons, M. L. 3 b Port Chester, N. Y.  
 Simpson, K. M. 3 s 419 W. 118  
 Simpson, W. J. P. 2 s 544 W. 113  
 Sincerbeaux, F. H. 3 l 420 W. 118  
 Sinclair, J. E. 2 s 62 Taylor, Newark, N. J.  
 Sinclair, J. S. f a 564 Hancock, Bklyn.  
 Sindeband, M. L. 2 s 211 E. 3  
 Singer, D. A. 3 m 53 W. 112  
 Singer, W. B. 1 s 652 Third ave.  
 Sinsheimer, E. 3 t 48 W. 95  
 Sirovich, W. I. 3 m 372 E. 4  
 Sittenfield, M. M. 3 l 156 W. 122  
 Skinner, N. T. 4 t 524 W. 123  
 Skutch, I. 1 c 423 Pulaski, Bklyn.  
 Slaughter, W. H. 2 m 52 Johnson, Bklyn.  
 Slayman, I. G. 3 t  
 Sloane, C. O' C. 3 c 55 Montrose ave., So. Orange, N. J.  
 Sloane, F. J. 1 m 107 E. 69  
 Sloane, J. E. 1 c 55 Montrose ave., So. Orange, N. J.  
 Sloane, M. W. f a 247 Broad, Newark, N. J.  
 Sloat, H. M. 2 s 35 N. 10th ave., Mt. Vernon, N. Y.

Slocum, A. L. 3 *m*  
 375 Manhattan ave.  
 Slosson, S. 4 *c*  
 116 and Riverside dr.  
 Small, L. L. *ph*  
 436 9th ave., L. I. C.  
 Smalley, H. L. *fa* 527 W. 123  
 Smedley, A. C. *p* 2 E. 128  
 Smetanka, J. *pl* 41 E. 69  
 Smillie, C. Van V. 1 *s* 156 E. 36  
 Smith, A. H. *sp t* 417 W. 118  
 Smith, A. V. W. 4 *b* 183 W. 135  
 Smith, C. A. 2 *l* 233 W. 122  
 Smith, C. E. 2 *b* Woodside, N. Y.  
 Smith, E. C. 4 *t* 430 W. 118  
 Smith, E. N. *fa* 101 E. 69  
 Smith, G. M. 4 *m* 253 W. 75  
 Smith, H. 3 *t* 214 Woodworth ave.,  
 Yonkers, N. Y.  
 Smith, H. R. 2 *s* 341 E. 19,  
 Bklyn.  
 Smith, H. W. 3 *l* 416 W. 118  
 Smith, J. J. 4 *m* 325 W. 58  
 Smith, J. P. *sp b* 105 E. 38  
 Smith, K. A. 2 *b* 221 W. 106  
 Smith, L. B. 4 *c* 97 South,  
 Mt. Vernon, N. Y.  
 Smith, L. M. 4 *t*  
 Smith, M. 4 *b* 535 W. 159  
 Smith, M. C., Jr. 1 *s* 157 W. 119  
 Smith, M. E. 4 *m* 318 W. 57  
 Smith, O. H. 1 *c*  
 638 West End ave.  
 Smith, S. B. 4 *m* 430 W. 118  
 Smith, S. L. 3 *m* 30 W. 44  
 Smith, W. H., Jr. 1 *c*  
 143 W. 61  
 Smith, W. M. 2 *m* 54 W. 104  
 Smith, W. P. 3 *t* 341 W. 56  
 Smith, W. S. 4 *m* 831 E. 146  
 Smolen, A. L. 3 *m* 405 E. 61  
 Smyth, S., Jr. *p*  
 Snedeker, C. F. 3 *s*  
 354 Manhattan ave.  
 Snevily, H. M. 1 *c* 81 Macon,  
 Bklyn.  
 Snider, G. E. *pl* 507 W. 112  
 Snively, H. N. *p* 419 W. 118  
 Snook, C. P. 1 *s* 182 Hart,  
 Bklyn.  
 Snowden, A. A. *gr t* 457 W. 123  
 Snowden, A. E., Mrs. *ph*  
 457 W. 123  
 Snowden, Y. *pl* 103 W. 48  
 Snyder, A. 4 *b* 19 E. 95  
 Snyder, H. H. *sp c* 530 W. 123  
 Snyder, T. E. 2 *c* 301 W. 114  
 Sobel, A. *pl* 345 E. 3  
 Sobel, S. P. 3 *m* 229 E. 126

Soden, G. A. 4 *m* 86 Broad,  
 Newark, N. J.  
 Solley, F. D. 4 *m*  
 1332 Lexington ave.  
 Solomon, C. L. 4 *b* Care Halper  
 1297 Amsterdam ave.  
 Solomon, J. 1 *l* 153 E. Bway.  
 Solomon, M. 2 *c* 24 E. 113  
 Solomon, W. L. 3 *c* 522 W. 150  
 Solotaroff, D. H. 2 *l* 41 W. 117  
 Solow, D. E. 3 *s*  
 1110 Jackson ave.  
 Somborn, E. 3 *b*  
 348 Central Park West  
 Somers, H. *ph* 604 W. 115  
 Soper, A. E. 3 *m* 121 W. 61  
 Soper, W. B. 1 *m* 226 W. 75  
 Sowles, E. B. 4 *t*  
 1230 Amsterdam ave.  
 Spafard, M. B. 3 *t* 430 W. 118  
 Sparkman, L. H. 4 *b* 448 Ellison,  
 Paterson, N. J.  
 Specht, R. W., Jr. *sp m*  
 216 W. 42  
 Speck, F. G. *ph*  
 Hackensack, N. J.  
 Spelman, H. T. 2 *m*  
 196 Eighth ave., Bklyn.  
 Spence, K. M. 3 *c* 320 W. 75  
 Spencer, C. *ph*  
 929 West End ave.  
 Spencer, C. B. 2 *c*  
 1124 Tinton ave.  
 Spencer, J. B. 3 *s*  
 929 West End ave.  
 Spencer, J. W. 3 *l* 431 W. 117  
 Spickers, W., Jr. 3 *m* 141 W. 64  
 Spiegelberg, S. L. 3 *m* 145 Greene  
 Spingarn, S. 4 *c* 118 E. 58  
 Spitz, E. F. 3 *c* 265 Kosciuszko,  
 Bklyn.  
 Spitzer, B. 1 *s* 411 E. 88  
 Sprague, F. K. 1 *s* Hotel San Remo,  
 74 and Central Park West  
 Springer, A. 3 *t*  
 1230 Amsterdam ave.  
 Springs, A. A., Jr. 2 *l* 420 W. 118  
 Staber, H. L. 4 *b* 360 Clinton,  
 Bklyn.  
 Stackpole, C. E. 4 *t*  
 1230 Amsterdam ave.  
 Stafford, Mrs. C. B. 4 *t*  
 234 W. 114  
 Stair, B. W. *ph* 508 W. 112  
 Stamper, A. W. *gr t* 402 W. 124  
 Stangland, R. S. *p* 157 W. 123  
 Stapf, F. M. 3 *b*  
 1230 Amsterdam ave.

- Starbuck, W. L. 1 s  
746 St. Nicholas ave.
- Stark, S. 2 l 244 Bowery
- Starr, F. ph 417 W. 114
- Starr, I. P. 4 m 17 Essex
- Start, Mrs. M. H. 4 t 418 W. 118
- Staub, A. 1 s 228 Stockton,  
Bklyn.
- Staub, A. W. ph 41 E. 69
- Staunton, H. C. ph 2 Bible House,  
care Thos. Whitaker
- Stearn, M. F. 1 b 410 W. 115
- Stebbins, C. M. ph  
951 St. Mark's ave., Bklyn.
- Steckler, A., Jr. 1 c 34 W. 87
- Steegmuller, C. A. A. 4 s  
354 W. 120
- Steele, P. 3 l 242 Carroll, Bklyn.
- Steere, A. 3 m 159 W. 64
- Steeves, H. R. ph 62 W. 103
- Steffens, J. F. sp s 253 Ogden  
ave., Jersey City Heights
- Stein, A. E. 3 t 18 W. 72
- Stein, C. S. f a  
292 Manhattan ave.
- Stein, G. R. b  
292 Manhattan ave.
- Steinberg, M. A. 2 s 85 Ridge
- Steinberg, P. 1 b 9 E. 117
- Steiner, M. 3 l 327 E. 42
- Steiner, S. H. 3 c 2003 Clinton ave.
- Steinfeld, A. 2 c 22 E. 93
- Steinhardt, I. D. 3 m 168 W. 96
- Stella, G. 3 m 214 E. 16
- Stepanek, B. ph 138 W. 4,  
Mt. Vernon, N. Y.
- Stepaniertz, E. A. ph 41 E. 69
- Stephens, R. 2 s  
146 and Gerard ave.
- Stern, H. R. 2 l 986 Fifth ave.
- Stettler, A. 3 t  
1230 Amsterdam ave.
- Stevens, C. F. 1 c 528 W. 123
- Stevens, E. C. 4 s 500 W. 121
- Stevens, H. H. 4 m  
188 Buena Vista ave.,  
Yonkers, N. Y.
- Stevens, O. E. 3 s  
116 and Riverside dr.
- Stevens, W. M. 1 l
- Stevenson, M. P. sp b  
Roselle, N. J.
- Stewart, C. A. 3 c 259 W. 11
- Stewart, E. E. 3 m 123 W. 11
- Stewart, L. p 533 Manhattan ave.
- Stewart, M. G. p  
533 Manhattan ave.
- Stewart, S. 3 m 144 W. 65
- Steyne, L. A. 3 l 260 W. 130
- St. George, A. H. 4 c 538 S.  
6th ave., Mt. Vernon, N. Y.
- Stiebritz, E. 3 t 604 Bway.,  
Astoria, L. I.
- Stillman, A. 2d, 2 m 35 E. 39
- Stillman, R. G. 2 m 143 W. 63
- Stimson, L. H. gr t 159 W. 86
- Stiner, P. A. 4 c 149 W. 120
- Stinson, J. W. f a 301 W. 91
- Stitt, E. W. 3 b 156 W. 93
- Stix, L. C. 1 s 496 West End ave.
- St. John, T. R. 3 l 143 W. 61
- St. John, W. R. 4 m 143 W. 61
- Stobo, J. R. sp b  
925 West End ave.
- Stock, J. W. 1 c  
2710 Decatur ave.
- Stockard, C. R. p 519 W. 123
- Stockbridge, A. M. 4 t  
2111 Madison ave.
- Stockton, E. M. 3 t  
320 St. Nicholas ave.
- Stockton, G. C. 3 c  
320 St. Nicholas ave.
- Stockton, J. L. 3 c  
320 St. Nicholas ave.
- Stoiber, H. A. sp c  
495 Eighth ave., Bklyn.
- Stone, C. M. ph 141 W. 131
- Stone, I. p Poughkeepsie, N. Y.
- Stone, M. H. p 254 W. 93
- Stoneberg, P. J. pl 137 W. 103
- Stork, E. J. 2 s 212 Hancock ave.,  
Jersey City
- Stoutenburgh, C. H. 4 s 110 W. 77
- Stowell, H. W. 2 l 323 W. 124
- Strain, W. P. 3 m 28 Guion,  
New Rochelle, N. Y.
- Stratmann, C. F. 3 m 453 E. 25,  
Bklyn.
- Strauss, M. J. 1 b 70 W. 69
- Strayer, G. D. gr t 528 W. 123
- Streeter, P. C. 3 c 409 W. 117
- Strickland, A. F. 2 t 207 W. 107
- Strobridge, G. 3 s 141 W. 4
- Strong, A. McL. 1 m  
139 Madison ave.
- Strong, R. M. 4 s 521 W. 123
- Struss, W. E. 4 s  
729 St. Nicholas ave.
- Stuart, D. C. ph  
1161 Amsterdam ave.
- Stuart, F. 4 t 605 W. 115
- Stubbs, H. M. 4 t 478 W. 145
- Stuhrman, E. A. 2 s 536 E. 13
- Stur, A. A. f a 521 W. 123
- Sturges, H. P. 3 c 56 E. 34



Sturtevant, M. G. 1 m 330 W. 56  
 Sudzuki, J. pl 140 Nassau, Bklyn.  
 Sullivan, F. J. 3 l  
     74 McDonough, Bklyn.  
 Sullivan, J. E. 3 t 540 W. 114  
 Sullivan, M. A. 3 l 510 W. 124  
 Sullivan, M. D. 3 m 465 W. 57  
 Sullivan, R. P. A. 2 m  
     74 McDonough, Bklyn.  
 Sumner, A. J. 3 m 130 Broome  
 Sumner, E. T. 4 t  
     1230 Amsterdam ave.  
 Sundheimer, A. I. 2 s 234 W. 137  
 Sussman, M. H. 3 s 318 E. 121  
 Sutro, H. A. 3 s 44 W. 76  
 Sutter, M. V. sp c 63 Neptune  
     ave., New Rochelle, N. Y.  
 Suydam, A. G. 2 s  
     Ridgefield, N. J.  
 Suzuki, I. pl 110 W. 128  
 Swan, E. pl 68 W. 96  
 Swan, W. L., Jr. 1 s  
     Oyster Bay, L. I.  
 Swann, A. W. 2 m 550 Park ave.  
 Swarts, L. E. 2 l 369 W. 117  
 Swartwout, E. W. 1 s  
     Scarsdale, N. Y.  
 Swartwout, F. R. 1 c  
     Scarsdale, N. Y.  
 Sweezy, L. V. V. f a  
     61 Convent ave.  
 Swenson, J. A. p 131 W. 137  
 Swick, D. A. gr t  
     1683 Lexington ave.  
 Swift, M. B. 4 m 144 W. 65  
 Swords, A. T. 2 c  
     1727 Washington ave.  
 Swortfiguer, H. B. 2 l  
     261 Central Park West  
 Syverson, T. S. 1 s  
     204 Lenox ave.  
 Taft, T. K. 3 m 361 W. 117  
 Tajima, S. ph 700 Park ave.  
 Takata, S. pl 128 W. 116  
 Talbot, A. A. 4 b Bowne Park,  
     Flushing, N. Y.  
 Talcott, M. G. 3 s 416 W. 118  
 Tamblin, A. T. pl 700 Park ave.  
 Tamblyn, G. O. pl 700 Park ave.  
 Tanz, I. 3 s 55 Pitt  
 Tanzer, H. H. ph 294 W. 92  
 Taplin, E. G. 4 t 519 W. 123  
 Tarbell, F. W. 1 m 119 W. 63  
 Tasche, J. 3 t 444 E. 120  
 Tattershall, A. S. 4 b  
     1230 Amsterdam ave.

Tattershall, L. M. 1 b  
     1230 Amsterdam ave.  
 Taylor, A. L. 3 t 521 W. 123  
 Taylor, A. R. 4 t 76 Riggs pl.,  
     South Orange, N. J.  
 Taylor, B. R. 4 t  
     1230 Amsterdam ave.  
 Taylor, C. D. 2 m 238 W. 56  
 Taylor, C. G. 2 m 430 W. 118  
 Taylor, E. L. 3 t 521 W. 123  
 Taylor, H. B. 3 s  
     902 West End ave.  
 Taylor, J. A. 4 c 3285 Bway.  
 Taylor, J. E. 4 t 166 W. 83  
 Taylor, J. H. 2 c 67 W. 106  
 Taylor, J. W. ph 3285 Bway.  
 Taylor, R. M. 2 s 122 W. 133  
 Taylor, V. 3 b  
     1230 Amsterdam ave.  
 Teale, E. L. 4 c 1854 82d, Bklyn.  
 te Gussinklo, W. 3 m  
     81 Fourth ave.  
 Telford, G. C. 4 t 524 W. 123  
 Telsey, S. A. 3 l 462 Stone ave.,  
     Bklyn.  
 Temagno, G. M. t 3 W. 87  
 Temple, H. K. f a  
     517 Manhattan ave.  
 Ten Brook, Glen J. 1 m  
     30 E. 33, Bayonne, N. J.  
 Tenney, J. B. 3 s 530 W. 123  
 Te Poel, L. J. 3 l 110 W. 137  
 Tepper, E. 3 l 137 W. 116  
 Terrett, M. p  
     1230 Amsterdam ave.  
 Terriber, W. K. 2 m 424 W. 57  
 Terry, W. R. 4 m 318 W. 57  
 Thallon, I. C. ph 210 W. 107  
 Theil, S. S. 2 l 660 E. 141  
 Thoman, W. F. 3 s 312 W. 87  
 Thomas, C. S., Jr. 3 s 419 W. 118  
 Thomas, H. A. 3 c  
     431 Riverside dr.  
 Thomas, H. L. R. 4 c 126 W. 82  
 Thomas, I. C. 2 t  
     1230 Amsterdam ave.  
 Thomas, J. W. ph 1050 Bergen,  
     Bklyn.  
 Thomas, M. G. pl  
     Stony Point, N. Y.  
 Thomas, T. G. 1 l 24 E. 58  
 Thompson, H. pl 38 E. 22  
 Thompson, H. R. f a 7 W. 108  
 Thompson, J., Jr. 4 c 430 W. 118  
 Thompson, M. 4 b 166 W. 97  
 Thompson, M. E. gr t  
     1230 Amsterdam ave.  
 Thorndike, E. L. pl 520 W. 123

- Thorp, A. F. M. 4 b  
     1230 Amsterdam ave.  
 Thorp, T. J. 3 s      171 E. 70  
 Thrasher, F. L. 2 t      557 W. 124  
 Thunig, L. A. 3 m  
     799 DeKalb ave., Bklyn.  
 Thurlow, J. N. 3 c 152 Gates ave.,  
     Bklyn.  
 Thurston, E. D., Jr. 4 c 113 E. 20  
 Tibbitts, M. E. 2 b      213 Temple,  
     Astoria, L. I.  
 Tice, W. G. sp s 327 Pacific ave.,  
     Jersey City  
 Tierney, J. A. 2 s      68 W. 49  
 Tiffany, W. J. 4 m      465 W. 57  
 Tillinghast, R. B. l      500 W. 121  
 Tilt, W. A. 4 c      5 E. 67  
 Tinges, K. W. 4 t  
     1230 Amsterdam ave.  
 Tintner, B. A. ph      531 W. 123  
 Titsworth, S. R. 3 m  
     Plainfield, N. J.  
 Todd, J. R. pl      419 W. 118  
 Tolbert, W. V. 3 l      605 W. 115  
 Tolins, J. 4 c  
     312 Snediker ave., Bklyn.  
 Toll, R. W. 3 s      627 W. 115  
 Tompkins, G. B. 4 c      104 Park  
     ave., Paterson, N. J.  
 Toms, E. I. 3 b      44 W. 128  
 Tonart, M. DeM. 1 m  
 Tonking, W. W. 1 s      361 W. 117  
 Tonnelle, J. L., Jr. 4 c      48 E. 68  
 Torborg, G. R. 1 s      589 W. 145  
 Towle, E. W. p 272 Johnson ave.,  
     Richmond Hill, L. I.  
 Townsend, E. B. 1 c      414 W. 124  
 Townsend, H. C., Jr. 1 s 144 W. 80  
 Townsend, S. D. 4 c  
     Arlington, N. J.  
 Townshend, R. 4 m  
     Boulevard and 75  
 Toy, C. R. 1 l      608 W. 113  
 Tracy, H. A. 2 b  
     1230 Amsterdam ave.  
 Tracy, S. E. sp t  
     1230 Amsterdam ave.  
 Traitel, L. 1 b 148 Woodland ave.  
     New Rochelle, N. Y.  
 Treat, H. P. 4 c      401 W. 100  
 Treat, M. 3 t      511 W. 112  
 Tredwell, E. A. S. T. 2 b  
     258 W. 52  
 Trevor, J. B. 3 l      21 E. 37  
 Trier, B. p      703 Madison,  
     Bklyn.  
 Tripp, M. O. p      Lincoln Park,  
     Yonkers, N. Y.
- Tripp, P. B. 3 c      249 W. 103  
 Tron, S. E. 1 m      134 W. 29  
 Trotter, J. P. 2 m 189 Warburton  
     ave., Yonkers, N. Y.  
 Trowbridge, J. 3 t  
     811 St. Nicholas ave.  
 Trowbridge, W. W. p 526 W. 123  
 Troy, A. C. 2 l      90a Heyward,  
     Bklyn.  
 Truax, H. W. 2 l      Long Branch,  
     N. J.  
 Trubenbach, C. D. 4 s 324 W. 57  
 True, D. 2 b      328 W. 83  
 Truesdale, J. R. 1 t  
     Greenwich, Conn.  
 Truesdell, E. D. 3 m      343 W. 56  
 Tryon, H. H. pl      41 E. 69  
 Tsukahara, M. ph      605 W. 115  
 Tuchmann, A. 1 c  
     1185 Lexington ave.  
 Tucker, G. W., Jr. 4 c 544 W. 113  
 Tucker, R. B. 1 s      144 Elm ave.,  
     Rahway, N. J.  
 Tulipan, L. 4 m      119 Attorney  
 Tulloch, T. H. 2 s      411 W. 117  
 Turnbull, A. G. 1 b      510 W. 124  
 Turnbull, G. C. 2 b      27 Burnett,  
     E. Orange, N. J.  
 Turner, P. A. 1 m      319 W. 46  
 Tuttle, L. J. 3 t      524 W. 123  
 Tweddell, F. 2 m Great Neck, L. I.  
 Tweedy, A. M. 2 s      627 W. 115  
 Tyler, E. W. 3 l      381 Lewis ave.  
 Tyler, W. R. p      36 W. 93  
 Tyng, E. McJ. ph      298 Clinton,  
     Bklyn.
- Uhlig, W. 2 s      505 First, Bklyn.  
 Ulmann, A., Jr. 2 s  
     Care G. B. Wray, Yonkers, N. Y.  
 Underwood, J. H. pl 306 W. 115  
 Unger, H. H. 3 m      66 Ave. C  
 Unger, W. F. 2 l  
     1337 Madison ave.  
 Untermyer, A. 1 l      675 Fifth ave.  
 Untermyer, I. 1 s      675 Fifth ave.  
 Updike, E. H. 2 l      156 W. 74  
 Urban, L. R. ph      175 Ninth ave.  
 Utley, F. B. 2 m
- Vail, C. E. 3 m      343 W. 56  
 Vail, LeR. B. 1 m      185 Steuben,  
     Bklyn.  
 Vail, W. G. sp m      289 Monroe,  
     Bklyn.  
 Valentine, J. J. 4 m 70 and Bway.  
 Valentine, L. 3 t      94 Lawrence  
 Valentine, M. 2 b      21 W. 121

Van Buren, J. D., Jr. 4 c  
354 W. 120  
Van Cleef, F. C. 1 l 332 Lenox ave.  
Van Cott, H. H. 3 t 370 W. 116  
Van Cott, L. M. 3 t 161 W. 46  
Vanderhoof, M. W. 3 t 463 W. 143  
Van Horne, L. G. sp t  
1230 Amsterdam ave.  
Van Houten, R. S. 1 c 709 E. 25,  
Paterson, N. J.  
Van Ingen, E. G. ph 135 Henry,  
Bklyn.  
Van Nest, M. V. fa 25 E. 22  
Van Nostrand, N. W. 4 c  
139 W. 85  
Van Schott, G. J., Jr. 3 m  
125 Lexington ave., Passaic, N. J.  
van Siclen, M. 3 s 614 W. 113  
Van Suetendael, A. O. sp s  
Yonkers, N. Y.  
Van Tine, A. A. 1 c 127 W. 11  
Van Wagenen, E. 3 s 36 E. 53  
Van Wyck, W. sp c 132 W. 47  
Vaughan, B. F. 1 c 146 5th ave. E.  
Roselle, N. J.  
Vedder, J. N. p 115 W. 84  
Vehslage, H. E. 2 c 117 W. 43  
Veit, A. S. sp c 310 W. 73  
Veith, H. I. 1 b  
1081 Washington ave.  
Vermilye, R. M. 3 m  
34 Gramercy Park  
Very, E. 4 t 1230 Amsterdam ave.  
Veve, J. 4 m 141 W. 67  
Veve, S. 2 s 223 W. 121  
Vigouroux, G. G. fa 50 W. 84  
Villa, A. 3 s 452 W. 23  
Villoldo, P. 4 m 146 W. 65  
Viscardi, J. 1 s 434 E. 11  
Volk, M. 4 m 37 Rutgers  
vom Saal, F. M. 2 s 16 E. 55  
von Bernuth, R. L. 2 l 130 W. 64  
von Saltza, E. C. 3 t 204 W. 55  
von Saltza, P. 1 s 204 W. 55  
von Sholly, B. R. p 1869 7th ave.  
von Voigt, K. sp t  
1230 Amsterdam ave.  
Voorhees, H. C. 3 m 117 W. 63  
Voorhees, I. W. 4 m 355 W. 56  
Vreeland, L. B. 4 c 534 W. 124  
Vreeland, R. D. 3 m  
316 Broadway, Paterson, N. J.  
Wachendorff, E. C. sp s  
505 W. 124  
Wada, R. ph 700 Park ave.  
Wadelon, T. D., Jr. fa  
Bronxville, N. Y.

Wagner, W. A. 3 l  
Wahlig, R. C. 1 s Crotona Park  
East, near Suburban place  
Waite, M. E. ph Packer Institute,  
Bklyn.  
Wakelee, M. J. 4 t  
Maplewood, N. J.  
Walbridge, D. H. 2 c 355 W. 20  
Waldron, J. L. 4 c  
652a Lafayette ave., Bklyn.  
Waldstein, A. S. ph 152 E. 124  
Walker, A. S. B. 3 l  
Walker, Mrs. M. A. gr t  
434 Central Park West  
Walker, M. B. 2 b  
434 Central Park West  
Wall, J. P. 2 m  
Wallace, J. G., Jr. 3 l 236 E. 50  
Wallace, L. E. fa 54 W. 120  
Wallace, R. gr t 3135 Broadway  
Wallace, R. M. 4 t 125 E. 24  
Wallach, K. R. 1 l 53 E. 80  
Wallach, S. W. 3 l 75 Ave. D  
Wallenstein, C. A. 2 m 277 W. 177  
Walling, A. 3 t  
35 Morningside ave.  
Walling, L. G. 3 m 339 W. 55  
Wallower, F. C. 4 s 415 W. 118  
Walls, F. J. fa 93 and Bway.  
Wallstein, L. M. 2 l 538 W. 114  
Walsh, C. J. 1 c 209 Prospect ave.,  
Bklyn.  
Walther, J. W. 2 m  
431 Hopkins ave., Astoria, L. I.  
Walton, S. S. ph 127 W. 58  
Walz, A. 4 s 311 W. 111  
Walz, J. 2 l 311 W. 111  
Wang, C. Y. p 418 W. 118  
Ward, E., Jr. 3 s 134 W. 70  
Ward, F. E. fa Rye, N. Y.  
Ward, F. E. 4 s 400 W. 124  
Wardell, L. M. 2 b 19 W. 84  
Wardell, W. S., Jr. 1 c  
25 Waverley pl., Orange, N. J.  
Ware, F. 1 c 1285 Madison ave.  
Waring, A. J. 1 m 226 W. 75  
Waring, A. T. 3 t 301 W. 106  
Warner, A. H. sp s 457 W. 123  
Warner, D. V. pl 175 9th ave.  
Warren, C. pl 264 W. 93  
Warth, A. H. 3 s 19 Smith  
Terrace, Stapleton, N. Y.  
Waterbury, A. 4 i 234 W. 114  
Waterhouse, G. B. p 239 W. 126  
Watkins, E. D. 3 m 318 W. 57  
Watkins, S. S., Jr. 3 s 223 W. 106  
Watson, E. A. 4 b 51 Atlantic,  
Hackensack, N. J.

- Watson, E. V. 1 s 280 W. 86  
 Watson, G. G. sp t 1230 Amsterdam ave.  
 Wattgenstein, V. H. f a 206 W. 103  
 Watts, E. S. sp l 32 Broadway  
 Waugh, L. 3 t 246 W. 106  
 Wear, F. L. ph 972 Lexington ave.  
 Weathers, N. A. 3 l 329 W. 112  
 Weaver, P. 1 c 25 Jefferson ave., Bklyn.  
 Webb, C. R. 2 c Glen Ridge, N. J.  
 Webb, K. S. 3 c 248 W. 102  
 Wechsler, J. Z. 3 l 87 Lenox ave.  
 Wechsler, L. A. 2 c 122 W. 85  
 Weeks, E. T. 3 t 154 De Bevoise ave., L. I. C.  
 Weeks, F. L. 3 t 154 De Bevoise ave., L. I. C.  
 Weems, F. 4 t 1230 Amsterdam ave.  
 Weidman, E. I. 4 t 524 W. 123  
 Weihe, H. A. 1 l 527 W. 124  
 Weil, A. 2 c 119 Lenox ave.  
 Weil, J. 4 c 224 E. 60  
 Weil, J. 2 l 160 W. 95  
 Weil, P. L. 2 c 57 W. 87  
 Weingarten, F. S. 2 m 678 E. 140  
 Weinstein, M. 1 l 23 Montgomery  
 Weinstein, S. l 369 Grand, Bklyn.  
 Weintraub, V. 2 s 25 Gouverneur  
 Weisman, J. J. 2 c 120 E. 86  
 Weizenhoffer, A. 3 m 393 E. 8  
 Welch, A. M. ph 30 W. 131  
 Welch, P. R. 3 l 430 W. 118  
 Welle, E. 4 b 345 Straight, Paterson, N. J.  
 Weller, A. E. ph 291 Liberty, Newburgh, N. Y.  
 Welles, F. C. 3 c 658 West End ave.  
 Wells, F. L. ph 567 W. 113  
 Wells, G. 1 b 124 W. 77  
 Wells, G. F. pl 309 W. 93  
 Wells, H. E. b Richmond Hill, L. I.  
 Wells, H. J. gr t 361 Hillside ave., Jamaica  
 Wells, M. A. 3 b 508 Park ave., East Orange, N. J.  
 Werner, G., Jr. 1 s 465 W. 163  
 Werner, G. B. 4 s 209 W. 97  
 Wertheim, L. L. 4 m 66 S. 9th, Bklyn.  
 Wessler, H. 1 m 315 E. 58  
 West, H. J. 2 s 170 W. 85  
 Westbrook, F. A. 4 s 37 Strong pl., Bklyn.  
 Westcott, A. F. ph 520 W. 123  
 Wester, E. sp m 203 Hunterdon, Newark, N. J.  
 Westervelt, W. W., Jr. 3 l 150 Bway.  
 Westover, R. R. 3 m 736 E. 23, Paterson, N. J.  
 Westphal, A. F. 4 c Ethical Culture Sch., 63 and Central Pk. W.  
 Wheeler, B. L. 4 s 419 W. 118  
 Wheeler, D. I. 1 c 477 W. 144  
 Wheeler, H. L. sp b 453 W. 144  
 Wheeler, J. N. 1 c 149 Glenwood ave., Yonkers, N. Y.  
 Whicher, G. M. ph 68 Columbia Heights, Bklyn.  
 Whipple, A. O. 1 m 139 Madison ave.  
 Whipple, D. 1 s 685 Wenderover ave.  
 Whitaker, W. A., Jr. p  
 White, A. C. ph 560 Fifth ave.  
 White, D. 4 m 64 W. 56  
 White, E. M. 3 t 47 Franklin, Morristown, N. J.  
 White, M. L. 1 s 559 W. 141  
 White, R. J. 3 c 29 W. 95  
 White, R. L. 1 s 559 W. 141  
 White, R. P. 4 m 435 Fairmount ave., Jersey City  
 Whitley, M. T. 4 t  
 Whitney, D. D. p 538 W. 126  
 Whitney, G. C. 1 m 129 W. 61  
 Whitney, J. B. p 431 W. 117  
 Whitney, N. B. 4 t 522 W. 123  
 Whittemore, L. B. 3 t 8 Morningside Park  
 Whitwell, C. B. sp s 608 W. 113  
 Wiant, M. H. ph 1230 Amsterdam ave.  
 Wick, J. M. ph 457 W. 123  
 Wicke, C. 2 c 34 E. 68  
 Wiechers, H. 3 s 501 W. 120  
 Wiehle, A. L. V. 1 s 418 W. 118  
 Wiemann, A. B. 3 c 263 E. 78  
 Wien, F. ph 243 E. 86  
 Wiggin, J. D. 2 s 23 Snyder, Orange, N. J.  
 Wightman, M. 1 b 335 State, Bklyn.  
 Wilbur, C. L. 3 t 1230 Amsterdam ave.  
 Wilcox, E. D. pl Ammackassin Terrace, Yonkers, N. Y.  
 Wilcox, H. L. 4 b Ammackassin Terrace, Yonkers, N. Y.  
 Wilcox, P. W. 1 s 41 W. 52



- Wilcox, S. H. 2 s 41 W. 52  
 Wilcox, W. 2 t Yonkers, N. Y.  
 Wilensky, A. O. 2 m 56 St. Mark's place  
 Wilkes, E. M. 2 b 153 *Lenox ave.*  
 Wilkinson, E. L. 4 t 417 W. 114  
 Willard, H. C. ph 59 *Morningside ave.*  
 Willets, R. H. 3 s 526 W. 123  
 Williams, C. L. 3 c 429 W. 117  
 Williams, H. I. 3 b 1264 *Boston rd.*  
 Williams, H. P. sp l 244 Purdy, L. I. C.  
 Williams, J. 3 t 1230 *Amsterdam ave.*  
 Williams, J. A. ph 371 W. 119  
 Williams, J. H. A. 1 s 176 W. 86  
 Williams, R. A. 1 m 143 W. 61  
 Williams, R. G. 2 s 319 S. 1st ave. Mt. Vernon, N. Y.  
 Williams, R. T. 4 s 244 Purdy, L. I. C.  
 Williams, W. B. 2 s 262 Van Horne, Jersey City  
 Williamson, A. 4 s 110 W. 91  
 Williamson, D. B. 1 s 450 W. 153  
 Williamson, G. 1 s Dobbs Ferry  
 Willis, A. L. 4 c 81 Maple ave., Flushing, L. I.  
 Willis, J. 2 s W. New Brighton, S. I.  
 Willson, A. C. 3 t Darien, Conn.  
 Wilson, E. H. ph 449 W. 123  
 Wilson, J. E. 1 s 118 W. 123  
 Wilson, J. H. p 3120 Bway.  
 Wilson, J. R. 4 m 465 W. 57  
 Wilson, J. S. ph 449 W. 123  
 Wilson, M. 1 b 107 *Spruce, Newark, N. J.*  
 Wilson, P. C. ph 101 W. 85  
 Wilson, R. C. 3 s 542 W. 114  
 Wilson, S. K. ph 604 W. 114  
 Wilson, W. 1 s 149 E. 52  
 Wilson, W. A. 3 t 1230 *Amsterdam ave.*  
 Wilson, W. H. pl 268 Arlington ave., Bklyn.  
 Winchell, C. E. 1 c West Orange, N. J.  
 Windels, P. W. H, sp c 162 Lee ave., Bklyn.  
 Winetraub, A. I. M. 4 s 271 W. 122  
 Wing, D. L. pl Bretton Hall, Broadway and 86  
 Winger, W. McK. 1 l 521 W. 123  
 Wingfield, H. B. 4 t 1230 *Amsterdam ave.*  
 Winslow, L. L. 1 c 10 E. 58  
 Winslow, W. S. 1 s 787 *Cauldwell ave.*  
 Wirén, O. B. sp l  
 Wisansky, J. 4 m 65 E. 123  
 Wise, B. D. 1 c 154 W. 76  
 Wise, J. P. 3 l Metuchen, N. J.  
 Wise, L. E. 1 c 60 W. 85  
 Wise, W. W. 2 s 281 W. 119  
 Witt, A. W. 2 m 74 E. 105  
 Woarms, E. H. 1 c 314 W. 82  
 Wohljarth, A. ph 119 W. 129  
 Wold, E. M. p 1230 *Amsterdam ave.*  
 Wolf, J. I. 4 m 33 Essex  
 Wolf, L. ph 520 W. 123  
 Wolf, L. J. 2 c 7 W. 91  
 Wolferz, L. E. 1 c 497 Hart, Bklyn.  
 Wolff, A. J. 3 l 163 *Lenox ave.*  
 Wolff, F. M. 1 b 15 W. 89  
 Wolff, G. L. ph 130 E. 80  
 Wolff, J. 3 l 355 Walnut, Yonkers, N. Y.  
 Wolff, J. L. 1 l 303 E. 55  
 Wolff, L. J. 1 c 295 Throop ave., Bklyn.  
 Wolff, M. P. 4 b 1230 *Amsterdam ave.*  
 Wolff, W. A. 4 s 56 W. 114  
 Wolven, R. L. 3 c 17 Benson, Bloomfield, N. J.  
 Womack, M. D. p 509 W. 112  
 Wood, C., Jr. 4 c 38 E. 76  
 Wood, C. C. 3 t 233 W. 14  
 Wood, E. D. ph 58 W. 51  
 Wood, F. A. 3 t 417 W. 118  
 Wood, W. G. 3 m 61 E. 25  
 Wood, W. L. 1 c 38 E. 76  
 Woodbury, W. B. 1 c 203 W. 14  
 Woodhull, M. ph 567 W. 113  
 Woodman, S. P. 2 b 478 W. 159  
 Woodruff, G. B. 1 l 125 W. Jersey, Elizabeth, N. J.  
 Woodruff, J. K. 4 t 525 Fairfield ave., Bridgeport, Conn.  
 Woodruff, L. L. p 202 W. 103  
 Woodruff, M. 3 t 344 *Gregory ave., Passaic, N. J.*  
 Woods, A. G. 4 t 3136 *Broadway*  
 Woods, E. B. 2 m 143 W. 61  
 Woods, T. H., Jr. 2 m 46 So. Elliott pl., Bklyn.  
 Woods, W. A. E. 2 s 418 W. 118  
 Woodward, W. F. 3 t 347 W. 122  
 Wooldridge, J. C. 3 m 144 W. 65  
 Woolsey, C. B. 1 b *Englewood, N. J.*

- Woolston, H. B. *pl* 94 Lawrence  
 Wooster, B. C. 4 *t* Ridgewood, N. J.  
 Wormser, I. M. 2 *c* 19 W. 91  
 Worzel, H. H. 3 *c* 179 Fourth ave., Bklyn.  
 Woticky, C. 1 *s* 445 E. 87  
 Wright, E. H. 3 *c* 222 Bowery  
 Wright, F. S. 3 *m* 1 Mt. Morris Park West  
 Wright, H. W. 4 *m* 451 Morris ave., Elizabeth, N. J.  
 Wright, Mrs. L. N. *sp t* 1230 Amsterdam ave.  
 Wright, M. J. 3 *l* 414 W. 118  
 Wronker, B. M. 3 *c* 261 W. 127  
 Wuppermann, C. S. 2 *c* 309 W. 100  
 Wuppermann, R. K. 1 *l* 309 W. 100  
 Wyatt, C. B. 2 *l* 28 E. 30  
  
 Yaggy, S. E. *pl* Bellmore, N. Y.  
 Yale, D. I. 2 *b* 1230 Amsterdam ave.  
 Yancey, G. W. 2 *l* 457 W. 123  
 Yates, M. H. 1 *b* 208 W. 103  
 Yatsu, N. *p* 463 Manhattan ave.  
 Yen, C. Y. *pl* 500 W. 123  
 Yerington, H. H. 1 *m* 143 W. 61  
 Yokota, S. *pl* 64 E. 133  
  
 Young, A. B. 3 *s* 524 W. 123  
 Young, C. S. *gr t* 73 W. 89  
 Young, E. V. 1 *s* 147 Amity, Bklyn.  
 Young, J. E. L. (Mrs. R. M.) 3 *b* 529 W. 123  
 Young, J. J. 1 *s* 280 Corona ave., Corona, N. Y.  
 Young, J. M. 1 *b* 550 W. 125  
 Young, L. J. 2 *c* 429 W. 117  
 Young, S. S. *gr t* 416 W. 118  
 Younger, G. A. 4 *c* West New Brighton, N. Y.  
 Yung, B. G. *sp s* 65 Central Park West  
  
 Zabriskie, G. E. 2 *s* 1201 Broad St., Newark, N. J.  
 Zangler, E. C. 1 *b* Croton-on-Hudson, N. Y.  
 Zehe, Mrs. E. J. *f a* 111 Kimball's rd., Flatlands, Bklyn.  
 Zeiger, G. V. 4 *c* 138 Park, Montclair, N. J.  
 Zeiler, A. H. 4 *m* 160 W. 19  
 Zeitlin, J. *ph* 2101 Eighth ave.  
 Zelaya, A. 1 *m* 109 W. 77  
 Zigler, M. 4 *m* 189 Chambers  
 Zink, E. A. *gr t* 1230 Amsterdam ave.  
 Zinsler, J. J. 2 *l* 16 W. 117  
 Zons, F. W. 2 *c* 206 Jackson ave., L. I. C.

## Summary

### OFFICERS

Professors.....	121	
Adjunct Professors.....	46	
Clinical Professors and Lecturers.....	17	
Instructors.....	79	
Demonstrators.....	5	
Assistant Demonstrators.....	10	
Tutors.....	56	
Curators.....	2	
Lecturers.....	25	
Assistants.....	49	
Clinical Assistants.....	68	
<hr/>		
UNIVERSITY OFFICERS OF INSTRUCTION.....	478	
OTHER INSTRUCTORS IN TEACHERS COLLEGE.....	31	
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	<hr/>	35
		513
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OTHER OFFICERS OF ADMINISTRATION, TEACHERS		
COLLEGE.....	7	
	<hr/>	26
EMERITUS OFFICERS.....		12
		<hr/>
TOTAL.....		551
HORACE MANN SCHOOL and SPEYER SCHOOL ( <i>not</i>		
<i>included above</i> ).....		84

### STUDENTS

COLUMBIA COLLEGE:		
Senior class .....	106	
Junior " .....	117	
Sophomore " .....	113	
Freshman " .....	145	
Unclassified candidates for a degree.....	40	
Irregular students.....	6	
	<hr/>	527
The School of Law:		
Third-year class .....	127	
Second-year " .....	98	
First-year " .....	106	
Unclassified candidates for a degree.....	8	
Irregular students.....	3	
	<hr/>	342
Carried forward.....		869

Brought forward.....	869	
The School of MEDICINE:		
Fourth-year class .....	190	
Third-year " .....	156	
Second-year " .....	106	
First-year " .....	97	
Irregular students.....	11	
	<hr/>	560
The Schools of APPLIED SCIENCE:		
Fourth-year class .....	85	
Third-year " .....	156	
Second-year " .....	164	
First-year " .....	156	
Unclassified candidates for a degree.....	11	
Irregular students.....	17	
	<hr/>	589
FINE ARTS:		
Architecture (4 classes).....	74	
Music.....	35	
	<hr/>	109
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	<hr/>	709
TOTAL.....		2836
BARNARD COLLEGE.....		363
TEACHERS COLLEGE.....		640
COLLEGE OF PHARMACY		
(Not included in Directory)....		435
TOTAL.....		4274
<i>Deduct double Registration</i> <sup>1</sup> .....		218
		<hr/>
NET TOTAL OF RESIDENT STUDENTS		4056
Summer Session Students, 1904.....		961
<i>Deduct double Registration</i> <sup>2</sup> .....		184
		<hr/>
GRAND TOTAL OF RESIDENT STUDENTS.....		4833
EXTENSION STUDENTS.....		684

November 7, 1904

<sup>1</sup> Candidates for the higher degrees with Education as their major subject registered at Teachers College and in the Faculty of Philosophy, and Columbia and Barnard students registered for a diploma in Teachers College.

<sup>2</sup> Students who returned for work during the academic year.



## ACADEMIC CALENDAR

- 1904—Sept. 28—Wednesday. First half-year, 151st year, begins.  
Registration ceases for students matriculating for the first time. Later applications received only upon payment of an additional fee of \$5.
- Oct. 12—Wednesday. Fellows and Scholars to report themselves as in residence to the Registrar.
- Oct. 28—Friday to
- Oct. 31—Monday, inclusive. Celebration of the 150th Anniversary of the granting of the charter of Kings College.
- Nov. 8—Tuesday. Election Day, holiday.
- Nov. 24—Thursday to
- Nov. 26—Saturday, inclusive. Thanksgiving Day holidays.
- Dec. 24—Saturday to
- 1905—Jan. 7—Saturday, inclusive. Christmas holidays.
- Jan. 25—Wednesday. Mid-year examinations in Columbia College, Barnard College, and Teachers College begin.
- Feb. 4—Saturday. First half year ends.
- Feb. 6—Monday. Second half-year begins.
- Feb. 8—Wednesday. Fellows and Scholars to report themselves as in residence to the Registrar.
- Feb. 22—Wednesday. Washington's Birthday, holiday.
- Mar. 1—Wednesday. Last day for filing applications for University Fellowships.
- April 1—Saturday. Last day for filing applications for examination for higher degrees.
- April 20—Thursday to
- April 24—Monday, inclusive. Easter recess.
- May 1—Monday. Last day for filing applications for University Scholarships, and for presenting essays for the degree of Master of Arts.
- May 24—Wednesday. Final examinations begin.
- May 30—Tuesday. Memorial Day, holiday.
- June 11—Sunday. Baccalaureate Sermon.
- June 12—Monday. Class Day.
- June 14—Wednesday. Commencement Day.

- June 19—Monday. Examinations of the College Entrance Examination Board begin.
- July 5—Wednesday. Sixth Summer Session opens.
- Aug. 16—Wednesday. Sixth Summer Session closes.
- Sept. 18—Monday. Entrance examinations, and examinations for deficient and debarred students, begin.
- Sept. 20—Wednesday. Registration begins.
- Sept. 26—Tuesday. Registration ceases for students previously matriculated. Later applications received only upon payment of an additional fee of \$5.
- Sept. 27—Wednesday. First half-year, 152d year, begins. Registration ceases for students matriculating for the first time. Later applications received only upon payment of an additional fee of \$5.

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